RCRA End-of-Year Grant Report

Reporting Requirements

Programmatic Conditions

1. CYBERSECURITY CONDITION FOR STATE GRANTS

a) The recipient agrees that when collecting and managing environmental data under this assistance agreement, it will protect the data by following all applicable State law cybersecurity requirements.

b) (1) EPA must ensure that any connections between the recipient's network or information system and EPA networks used by the recipient to transfer data under this agreement, are secure.

For purposes of this Section, a connection is defined as a dedicated persistent interface between an Agency IT system and an external IT system for the purpose of transferring information. Transitory, user-controlled connections such as website browsing are excluded from this definition.

If the recipient's connections as defined above do not go through the Environmental Information Exchange Network or EPA's Central Data Exchange, the recipient agrees to contact the EPA Project Officer (PO) and work with the designated Regional/Headquarters Information Security Officer to ensure that the connections meet EPA security requirements, including entering into Interconnection Service Agreements as appropriate. This condition does not apply to manual entry of data by the recipient into systems operated and used by EPA's regulatory programs for the submission of reporting and/or compliance data.

(2) The recipient agrees that any subawards it makes under this agreement will require the subrecipient to comply with the requirements in (b)(1) if the subrecipient's network or information system is connected to EPA networks to transfer data to the Agency using systems other than the Environmental Information Exchange Network or EPA's Central Data Exchange. The recipient will be in compliance with this condition: by including this requirement in subaward agreements; and during subrecipient monitoring deemed necessary by the recipient under 2 CFR 200.331(d), by inquiring whether the subrecipient has contacted the EPA Project Officer. Nothing in this condition requires the recipient to contact the EPA Project Officer on behalf of a subrecipient or to be involved in the negotiation of an Interconnection Service Agreement between the subrecipient and EPA.

North Carolina follows cybersecurity conditions. More information available on request. No subawards were made.

2. EPA INVOLVEMENT IN THE COOPERATIVE AGREEMENT

EPA will be substantially involved in this cooperative agreement through programmatic oversight, and review and comment of all agreement activities and products. An End-of-Year review will be performed by EPA. EPA and the recipient shall work together on the preparation of the goals which will be addressed in a grant workplan for the following State Fiscal Year.

3. RECIPIENT PERFORMANCE REPORTING AND EPA REVIEW

For State and Tribal program recipients under 40 C.F.R. Part 35, Subparts A and B, interim and final performance reports submitted by recipients under 40 C.F.R. §§ 35.115 and 35.515 Evaluation of Performance) must adequately address progress in achieving agreed-upon outputs and outcomes. This includes ensuring that performance reports provide a satisfactory explanation of why outcomes or outputs were not achieved. The recipient shall submit, to the EPA Project Officer, an **annual** performance report (preferably electronic copies), due each December 31st. In accordance with 2 CFR 200.328, the recipient agrees to include in the performance report any agreed-upon work-product(s) resulting from the project and brief information on each of the following areas:
   a) an abstract or overview of the project including completed workplan activities;
   b) a comparison of actual accomplishments with the anticipated outputs/outcomes specified in the assistance agreement work plan;
   c) reasons why anticipated outputs/outcomes were not met;
   d) other pertinent information, including, when appropriate, analysis and explanation of cost overruns or high unit costs;
   e) the methods to be used to effectively disseminate project information and/or continue the benefits of this project (although the project itself may not be continuing);
   f) materials generated in connection with project activities (e.g., workshop announcements, newspaper/newsletter announcements, articles or releases, press packets, pamphlets, etc.).

To promote accountability, Strategic Plan alignment, and consistent reporting, it is important to prominently display the EPA Strategic Goal, EPA Strategic Objectives, and Workplan Commitments and time frames in all technical reports.

In accordance with 2 CFR 200.328, the recipient agrees that it will notify EPA of problems, delays, or adverse conditions which materially impair the ability to meet the outputs/outcomes specified in the assistance agreement work plan.

Note: A CD including North Carolina's Hazardous Waste Generator Workshop training materials, the Small Quantity Generator Self-Certification Checklist and the Biennial Report training information will be included with this report.

4. QUALITY MANAGEMENT PLAN (QMP)
Grantees implementing environmental programs that include:
   1) direct measurement, sampling or observation activities,
   2) environmental modeling,
   3) use of existing data,
   4) use of survey results, or

5) calculation of environmental outcomes

must prepare and implement a Quality Management Plan. The grantee shall submit to the EPA Project Officer (PO) an approvable QMP within 45 days of receipt of this agreement. The PO will forward the QMP to the EPA QA staff for review and approval. No data collection/use activities may occur until the QMP has been reviewed and approved by EPA.

The North Carolina "DENR" QMP is available online at this link:
http://www.ncair.org/monitor/QAPlans/DENR_QMP_2010.pdf

5. COMPETENCY OF ORGANIZATIONS GENERATING ENVIRONMENTAL MEASUREMENT DATA

In accordance with Agency Policy Directive FEM-2012--02, "Policy to Assure The Competency of Organizations Generating Environmental Measurement Data Under Agency-Funded Assistance Agreements", the Recipient agrees, that by entering into this agreement, that it has demonstrated competency prior to the award or will demonstrate competency prior to carrying out activities under the award involving the generation or use of environmental data. Recipient shall maintain competency for the duration of the grant and project period of this agreement. A copy of this policy can be found at http://www.epa.gov/fem/lab_comp.htm.

6. MINIMUM MATCHING SHARE REQUIREMENT

This award and the resulting federal funding share of 71.50% as shown under "Notice of Award" is based on estimated costs requested in the recipient's application dated 7/24/2015. While actual total costs may differ than those estimates, the recipient is required to provide no less than 25% of the final total allowable program/project costs (outlays). EPA's participation shall not exceed the total amount of federal funds awarded or the maximum federal share for this program of 75% of the final total allowable program/project costs.

North Carolina salary, fringe, and operating expenses paid by state fees are used for grant matching. This year, the state met the state match of $958,437 (29%) proposed in the grant application.

EPA's Mission: To Protect Human Health and the Environment

Strategic Goals from the FY 2014-2018 EPA Strategic Plan
(in place when this grant proposal was established and approved)

Goal 1: Addressing Climate Change and Improving Air Quality
Goal 2: Protecting America's Waters
Goal 3: Cleaning Up Communities and Advancing Sustainable Development
Goal 4: Ensuring the Safety of Chemicals and Preventing Pollution
Goal 5: Protecting Human Health and the Environment by Enforcing Laws and Assuring
      Compliance

Cross-Agency Strategies

Working Toward a Sustainable Future
Working to Make a Visible Difference in Communities
Launching a New Era of State, Tribal, Local, and International Partnerships
Embracing EPA as a High-Performing Organization

Core Values

Science, Transparency, Rule of Law

OVERVIEW

The Department of Environmental Quality's Hazardous Waste Section (HWS) is the designated state RCRA program for North Carolina.

Program Element 1: Hazardous Waste Management Program Development
For FY 2017, the HWS met all goals related to Program Element I. Drafts of Clusters XX, XXIII, XXIV were submitted to EPA in February 2017 for review. Currently the HWS is making updates and waiting on NC attorney review before submitting final application to EPA (with the exception of Clusters XVIII, Checklists for DSW which are on hold pending litigation). Cluster XXV anticipated submission date: December 2018.

Program Element II: Enforcement and Compliance, Waste Minimization and Pollution Prevention
For FY 2017, the HWS met or exceeded all goals related to Program Element II.

Additionally, the HWS continues to document waste minimization efforts during routine inspections (CEIs) by ensuring that facilities have a WM plan in place. CEIs were conducted at 297 generators during FY2017 during which WM plans and/or efforts were reviewed. If facilities had not written a full waste minimization plan, they were encouraged to do so.

Program Element III: Permitting
For FY 2017, the HWS achieved the goal of three Final Permit Determinations. Five Notice of Deficiencies (NOD) were projected and seven were accomplished. Also, four Completeness Determinations were projected and only three were accomplished. North Carolina is committed to ensuring that updated controls are a top priority.

Program Element IV: Corrective Action
For FY 2017, the HWS met or exceeded 3 of the 4 Corrective Action goals, the one goal missed was:
- CA900 or CA999, Performance Standards Attained, with a goal of 32%. However, NC exceeded our projections of a cumulative accomplishment by 1 (22 projected, 23 attained).
- There was a revision in the NC baseline from 86 to 97 facilities, which caused a change in the cumulative percent achieved. It should be noted that last year, NC exceeded the EPA HQ 2016 goal of 92% and were one facility from meeting the 2020 goal for this indicator.

PROGRAM ELEMENT I

Hazardous Waste Management Program Development

HW Program Element I Related to EPA Goals:
Goal 2: Protecting America's Waters
Goal 3: Cleaning Up Communities and Advancing Sustainable Development
Goal 4: Ensuring the Safety of Chemicals and Preventing Pollution
Goal 5: Protecting Human Health and the Environment by Enforcing Laws and Assuring Compliance

Total:
% Budget Allocation: 34%
FTE / Work Years: 14.0

North Carolina maintains its authorization by submitting timely and complete authorization packages and continues to improve its data management activities by ensuring that data is entered accurately and on a timely basis. The state continues to seek training opportunities, subject to the availability of resources, for new and experienced staff to ensure the program benefits from the most current developments in RCRA-related disciplines.

Activity	FY-17 Commitments		FY-17 End of Year Accomplishments
A. Retention of State Authority (SWDA Section 3009)	Schedule	Comments	
1. Give the state's schedule for submitting its next program revision application. Specify the Cluster(s) the state plans to request authorization.	Completed		Drafts of Clusters XX, XXIII, XXIV were submitted to EPA February 16, 2017 for review. *Currently the HWS is making* updates and waiting on NC attorney review before *submitting final application to* EPA (with the exception of Clusters XVIII, Checklists for DSW which are on hold pending litigation). Cluster XXV anticipated submission date: December 2018.
(a) Give the state's schedule for submitting draft statutory and/or regulatory changes to EPA for review.	As required by July 1 if regulatory or within 2 years if statutory.		

Activity	FY-17 Commitments		FY-17 End of Year Accomplishments
(b) Give the state's schedule for submitting final statutory and/or regulatory changes to EPA for review and approval.	30 days after change is in effect		
B. Grant Related Activities			
1. The state agrees to submit a draft work plan and grant application for FY-18	June 30, 2017		June 22, 2017
2. The state agrees to submit a final FY-16 work plan, grant application.	August 1, 2017		July 24, 2016
3. The state agrees to submit updated Document Flow Tables, if applicable	August 1, 2017		N/A
4. The state agrees to submit an End-of-Year Report summarizing the state's accomplishments during the previous fiscal year (40 CFR 31.40(b)(1)).	December 31, 2016		December 21, 2016
5. The state agrees to submit a final Financial Status Report (FSR) for the state's previous Section 3011 grant award.	December 31, 2016		By December 31, 2016
C. Training	Schedule	Comments	
1. The state agrees to submit a training needs assessment and/or training plan to EPA for review and consideration.		N.C. has requested AA, BB, CC training for FY2017	Training was held after the FY 2017 grant period.
2. Briefly describe any technical assistance the State would like EPA to provide in FY-17.		None requested	
D. Data Management Activities			
1. The state agrees to maintain and update the RCRA INFO data base	On-going	Ongoing	
2. The state agrees to enter all IOR information (i.e. handler, permitting, compliance and enforcement, and corrective action activity), into RCRA INFO within 30 days of the occurrence of the activity.	On-going		Remains on-going, met goal
3. The state agrees to pursue IOR status for all modules for which the state is not the IOR.	On-going		Remains on-going

Activity	FY-17 Commitments		FY-17 End of Year Accomplishments
E. Encourage the use of EMS			
1. Ensure basic EMS awareness for managers and staff.	On-going		Remains on-going
2. Ensure awareness of state plans to promote EMS to key industry sectors in the hazardous waste management universe.	On-going		NC's Environmental Stewardship Initiative (see below) has not been sector-based.
3. Ensure awareness of state-wide approaches to promote EMSs	On-going		NC's Environmental Stewardship Initiative (ESI) is the primary vehicle for promoting the use of EMSs and Pollution Prevention statewide, and both are also promoted at the annual Hazardous Waste Workshops. Detailed information on the ESI is located at http://ncesi.org/

PROGRAM ELEMENT II: Enforcement and Compliance, Waste Minimization and Pollution Prevention

Goal 5: Protecting Human Health and the Environment by Enforcing Laws and Assuring Compliance
Objective 5.1: Enforce Environmental Laws to Achieve Compliance
Objective 4.2: Promote Pollution Prevention

Total:

% Budget Allocation: 45%

FTE/Work Years: 18.50

The North Carolina Hazardous Waste Section will continue to demonstrate its commitment to protecting human health and the environment through a holistic approach to Compliance and Enforcement. This will be accomplished with a proactive compliance and monitoring program that will focus on priority inspections, compliance assistance and monitoring/enforcement priorities per the RCRA Compliance Monitoring Strategy. Specifically, compliance monitoring and enforcement efforts will focus on the following: never-inspected LQGs and SQGs, non-notifiers believed to have generated hazardous waste in quantities that would require notification, repeat violators and facilities that are the subject of citizen complaints. Inspections will also meet EPA Region 4's Generator and TSDF inspection requirements. Compliance assistance activities (i.e., workshops, compliance assistance visits and phone consultations) will focus on newly regulated facilities, facilities subject to new regulations and facilities with compliance issues.

All inspections conducted will be thorough and complete as related to the RCRA regulations that apply to each facility, and the findings will be documented in a written report. Violations will be clearly documented and classified as to whether the facility is a Significant Non-Complier (SNC) or a Secondary Violator (SV). Timely and appropriate enforcement actions will be taken for violations found in accordance with EPA's Enforcement Response Policy (ERP) and penalties assessed as appropriate. The State will participate in quarterly conference calls with the designated EPA Region 4 State Coordinator, or more frequently on an as-needed basis. North Carolina will enter all accomplishments into RCRAInfo in an accurate and timely manner.

The Hazardous Waste Section will continue to support EPA Region 4 initiatives, including the national priority of Financial Assurance, and its own State Priority Sectors. All mandatory core requirements committed to in this work plan will be met and every effort will be made to meet non-core activities such as emergency response and site remediation.

During FY 17 the Hazardous Waste Section's Compliance Branch continued implementing requirements of the Mercury Switch Removal Program as reported in the previous year. The North Carolina legislation requires the removal of convenience lighting assemblies from "end-of-life" automobiles prior to crushing, shredding and recycling. Currently North Carolina ranks in the top 10 in the nation for removal efficiency. These results were achieved through the part-

time efforts of one central office staff member providing program support and four field staff members performing 165 site evaluations. With 31.25 pounds of mercury collected this federal fiscal year, more than 1,185 pounds of mercury have been collected and recycled in North Carolina since the start of the Program. All mercury switches removed have been managed as Universal Waste. The removal of these switches from the scrap metal waste stream is expected to significantly reduce mercury emissions from secondary steel mills.

As agreed in the State Review Framework, North Carolina has reviewed groundwater reports in lieu of conducting GMEs at facilities that are permitted. These have been recorded in RCRAInfo as NRRs.

The End of Year accomplishments shown below may include facilities that were inspected more than once.

Activity	Type of Activity	FY-17 Projections	Notes	End of Year Accomplishment
1. Core Program Compliance Monitoring Activities:				
Post-Closure Universe: Land Disposal Facilities subject to Subpart F	NRR CEI	30 30	FMB See Note 1	42 44
Enforcement Monitoring (other)	CEI	6		10
Operating Permit Universe: All treatment/storage facilities (except Combustion)	CEI	8	See Note 1	18
Commercial Hazardous Waste Facilities (Multimedia)	CEI FCI	9 275		9 443
Operating Permit Universe: Combustion/BIF	CEI	1		1
Small Quantity Burners	FCI	2	See Note 2	3
HSWA/Corrective Action Only	CEI	7		12
Generators	CEI	160	See Note 3	194
Small Generators	CEI	60	See Note 3	128
Non-notifiers (Permit evaders)	CEI	1		10

Activity	Type of Activity	FY-17 Projections	Notes	End of Year Accomplishment
State Priority Sectors: - Hospitals - Never Inspected LQGs & SQGs - Facilities with prior NOV or Compliance Order - CRT/E-waste Recyclers	CEI	15		87
Salvage Yards (Mercury)	FCI	60		175
Citizen Complaints		40	See Note 4	63
Emergency Response		2		4
Activity	**Type of Activity**	**FY-17 Projections**	**Notes**	**End of Year Accomplishment**
Remedial Action		8		13
Support EPA initiatives, e.g. RCRA Info Financial Module		50		91
2. Enforcement Activities				
Number of NOVs/NODs	110, 115, 118 & 120	25		68
Number of follow-up inspections	CSE	25		72
Number of Show Cause/Informal meetings	219	4		2
Number of Formal Administrative Enforcement Actions	210 & 220	6		11
Number of cases referred for Civil Judicial Enforcement		1		0
Number of Criminal Cases Supported		0		0

Activity	Type of Activity	FY-17 Projections	Notes	End of Year Accomplishment
3. Compliance Assistance Activities for Core Compliance Monitoring Activities				
Compliance Assistance Visits (on-site)	CAV	60		80
Compliance Assistance (phone inquiries)		2000		5101
Presentations: -Large Generator Workshops -Resident Inspector Forums -Environmental Educ. Support		2 1 2	See Notes 5 & 6	5 1 12

1. Includes 100% of Local, State and Federal facilities.

2. In prior years these inspections were coded as "CEIs".

3. Includes never-inspected generators, and at least 20% of LQGs (156) and at least 3% of SQGs (52). The universe for LQGs is based on biennial reporting data and these inspections will be counted once.

4. Includes facilities subject to citizen complaints.

5. The National Waste Minimization Plan and North Carolina's Environmental Stewardship Initiative will continue to be promoted at these workshops.

6. Conducted five Large Quantity Generator Workshops.

Waste Minimization/Pollution Prevention

Waste Minimization Activities	FY-17 Commitments	End of Year Accomplishments
State-specific activities to promote waste minimization and pollution prevention	The Section will present a Waste Minimization Module in each of its four annual LQG Workshops.	Presented WM Module at five LQG workshops (see below for specific information)
	Waste Minimization is a part of every Compliance Evaluation Inspection (CEI), as required by manifest certifications and the Biennial Report.	

	• Each CEI is preceded with a "Required Records/Document Checklist" that requests all documents regarding (and persons knowledgeable of) the Waste Minimization Plan for the facility and/or a description of Waste Minimization programs and methods. • Inspectors note significant comments and findings in inspection reports.	

The NC Hazardous Waste Section (Section) continues to document waste minimization (WM) efforts during routine Compliance Evaluation Inspections (CEI) by ensuring that facilities have a WM plan in place. 322 CEIs were conducted at generators during FY 17 during which WM plans and/or efforts were reviewed. If facilities had not written a full plan they were encouraged to do so.

The Section conducted five compliance training workshops for large quantity generators of hazardous waste, with a total of 474 attendees. The WM session of these workshops covered source reduction, recycling, how to write a WM plan, and general WM methods. The session also included local electronic recycling opportunities, NC tax incentives for recycling, waste exchange programs available in NC, and the NC Environmental Stewardship Initiative (ESI) program. In addition, Federal EPA initiatives, including Sustainable Materials Management, priority chemicals, Lean Manufacturing, Life Cycle Assessment, Safer Choice Program, and Waste Wise Program were introduced and reviewed. The NC ESI is administered through the Division of Environmental Assistance and Customer Service (DEACS), as it is a voluntary, non-regulatory program. The ESI has continued to grow in membership since it began in 2002. Currently, there are 199 private industry and public works members. This includes 27 Environmental Stewards, 12 Rising Environmental Stewards, and 56 Environmental Partners at 160 sites. ESI invites industry to partner with the State in reducing industrial waste from any or all media. Most are successful in reducing solid waste, improving water and energy usage, and improving air quality. Participants that generate hazardous waste have a plan for its reduction. The participants are encouraged to develop sustainability plans and environmental management systems to cover all areas of environmental protection and pollution prevention and to become ISO 14001 certified.

ESI Members reported overall reductions in hazardous waste generation of more than 54,600 Tons (284 Tons hazardous waste and 54,360 Tons biohazardous waste), and reduction of solid waste going to the landfill (42,700 Tons). Additionally, member reported reductions in water usage (more than 2.4 Billion gallons saved), air emissions, energy usage (more than 22,000,000 mmBTUs saved), material consumption, and wastewater generation. Members saved over $2.6 million in 2015 (most recent year for which data is available), making their projects well worth their efforts.

The following are some of NC's waste minimization success stories:

TE Connectivity, Greensboro - NC0000202523, CESQG

The TE Connectivity Pegg Road plant in Greensboro includes sophisticated molding, assembly and testing capabilities for manufacturing critical electronic connection systems for the automotive industry. The plant is part of TE Transportation Solutions, and is committed to being a responsible environmental steward and actively working to reduce the site's environmental footprint.

"Our efforts reduced greenhouse gas emissions for the company by 25% from 2010 to 2014, while our water usage was down 17% during that same time. TE is also a partner in the U.S. Department of Energy Better Plants Program and is listed on the Dow Jones Sustainability Index," Carl Schultz, senior director, EH&S, said.

TE technologies are also helping the automobile industry reduce CO_2 emissions, with key challenges being vehicle weight, fuel consumption and improved electrical efficiency. Lighter vehicles are key to greener transportation. The company successfully engineered copper to aluminum termination of wire harnesses in vehicles, and full termination can reduce the weight of a wire harness by about 15%. It also offers solutions that can positively impact vehicle emissions directly. Their Urea quality sensors can actively engage and understand the physical and chemical makeup of vehicle exhaust.

Eaton, Raleigh facilities – NCD097721849 and NCR000149781, both CESQGs.

Power management company Eaton is recognizing three of its Raleigh Electrical facilities for achieving "zero waste-to-landfill" by eliminating all of wastes sent to landfills through recycling, re-use, new work processes and other means as part of its waste management program and also as a means to reduce the release of greenhouse gases (GHG) associated with landfills, especially methane. In 2014, Eaton reduced its landfilled wastes by about 7 percent, or 1,500 metric tons, as part of a global zero waste-to-landfill program. This eliminated 2,500 metric tons of CO_2 that otherwise would have been released during the transportation and storage of landfilled wastes in 2014. Together, more than 60 Eaton sites around the world have achieved the goal of sending zero waste to the landfill. Eaton's goal was to reduce GHG emissions by 25 percent, indexed to sales, by the end of 2015.

Multiple ESI facilities are working toward reducing their solid waste to landfills to zero through recycling programs and reuse of materials when necessary.

Assistance to schools

Although the NC Hazardous Waste Section successfully completed its SC3 Grant obligations in 2010, the Section continues to provide technical assistance to schools upon request. Industry is encouraged to provide technical assistance to local schools in their communities as a part of the Large Quantity Generator Training Workshops and other industrial education conferences. They are informed that this assistance meets their public outreach goal as encouraged in the NC Environmental Stewardship Initiative.

PROGRAM ELEMENT III: Permitting

Permitting

Goal 3.1.2: Manage hazardous wastes properly by having permits or other approved controls in place.

Program Objectives
a) Develop multi-year strategies to meet the annual goals.
b) Identify what is needed in order to establish approved controls for each facility in the permitting baseline.
c) Develop multi-year strategies to implement updated controls.

Total:
% Budget Allocation   9%

FTE/Work Years   3.50

North Carolina will continue to process renewal permits, permit modifications and alternatives to post-closure permits.

The facility names are provided in Attachment A of the work plan. In addition, North Carolina is authorized for the base program and Corrective Action.

Accomplishments

The Hazardous Waste Section Facility Management Branch main focus for permitting is permit renewals and permit modifications. For FY-17 we projected; 5 NOD and accomplished 8, 4 Completeness Determinations and accomplished 3, 4 Public Notices and accomplished 3 and 4 final determinations and accomplished 4.

Completeness Determinations were projected but not accomplished at DSM, Alcoa (now Badin Business Park), or the Former Deere facility however were not projected but accomplished at DAK and Parker Hannifin.

Public Notices were projected but not accomplished at Alcoa and Georgia Pacific however a Public Notice was not projected but accomplished at IBM.

A Final Determination was projected for Georgia Pacific but not accomplished, however the permit at Glaxosmithkline North was purposely allowed to expire after clean closure of the regulated units.

Progress at the Alcoa facility has lagged behind because of the interaction of the FMB with local interest groups and discussions concerning assessment and final remedies. It is anticipated that the Alcoa renewal permit will be issued in FY-18. DSM is a complex facility and the permit is being split between 2 entities. These complexities have caused slight delays. the FMB is awaiting one last document from the Georgia Pacific facility before the project will be declared complete and the permit will be terminated.

In addition, the closure of all units was accomplished at the Glaxosmithkline North facility

(NCD065655599). A permit renewal application was purposely not submitted in a timely manner and the permit has expired and was recorded as an OP270 with an actual date of 3/7/2017.

Also accomplished were 8 Class 1, 1 Class 2 and 2 Class 3 Permit Modification approvals and 7 Five Year reviews.

Table III-1:   RCRA Permitting Activities

Note: North Carolina is fully authorized and does not require and joint permits.

Permitting Activities	FY-17 Commitments. (Facility names are included in Appendix A)	FY-17 Accomplishments	Notes
1. 1. Part B application review and NOD or compliance action to notify applicant of deficiencies:			
- PostClosure (PC100)	2	3	
- Storage/Treatment (OP100)	3	4	
- Subpart X			
- Incinerators/BIFs			
- Begin Alternate to PC Mechanism			
- HSWA Only		1	
- Enforceable Document			
2. 265 Closure Plan review and NOD or compliance action to notify applicant of deficiencies:			
- Land Disposal (CL320)			
- Incinerators/BIF			
- Storage/Treatment			
- Equivalency Petitions			

Permitting Activities	FY-17 Commitments. (Facility names are included in Appendix A)	FY-17 Accomplishments	Notes
3. **Completeness Determinations:** (Permit applications determined complete and technically adequate and ready to proceed with draft permit).			
- PostClosure (PC150)	2	1	
- Storage/Treatment (OP150)	1	2	
- Subpart X			
- HSWA Only	1	0	
- Alternative to PC Mechanism			
4. **Public Notices - Draft Permits (or alternate mechanisms)/Permit Denials/Closure Plans/Modifications**			
- PostClosure	1	0	
- PC Plan: (CL340)			
- Draft Permits: (PC160)	2	2	
- Draft AOCs:			
- Storage/Treatment Draft Permits: (OP160)			
- Subpart X			
- Incinerators/BIFs			
- HSWA Only	1	1	
5. **Final Determinations Permits Issued/ Permits Denied/Closure Plans Approved/Alternate Mechanisms:**			
- PostClosure- • PC Plan: (PC360) • Permits: (PC200)	1- termination	0	
- Enforceable Documents in lieu of Permit			
- Storage/Treatment (existing) Permits: (OP200)	2	3	Glaxosmithkline permit expired on 3/7/2017.

Permitting Activities	FY-17 Commitments. (Facility names are included in Appendix A)	FY-17 Accomplishments	Notes
- Closure Plans: (OP360)			
- Incinerators/BIFs			
- Subpart X			
- HSWA Only	1	1	
- New Facilities			
6. Modification – Approval/Denial – Permits and Closure Plans			
- Land Disposal			
- PostClosure (PC240/242)		2	1 Class 1, 1 Class 3
- Storage/Treatment (OP240/242)		5	5 Class 1
- Incinerators/BIFs			
- Subpart X			
- HSWA Only		4	2 Class 1, 1 Class 2, 1 Class 3
7. Closure Certifications			
- Land Disposal (Interim CL370/380) (Permitted PC370/380)	....		
- Storage/Treatment (OP370/380)	1	1	
- Subpart X			
8. Miscellaneous			
- Emergency Permits			
- Temporary Authorizations			
- 5 Year Reviews PC557xx		7	
- Interim Measures (Work Plan) Approvals			

Table III-2: RCRA, 2018 GPRA Hazardous Waste Facilities Issued Initial Permits or Permit Renewals or having other Approved Controls in Place.

Combined FY 2018 GPRA Baseline = 36	Commitments for Initial Permits or Renewals (Permit or Other Approved Controls in Place for all Units)		Accomplishments
	FY 2017 Commitment	Type of Permit/Control	
FY 2017	Clean Harbors	Operating	9/20/17
	IBM	HSWA Only	12/21/16
	Veolia	Operating	8/30/17
	Georgia Pacific (not a RCRA facility)	State only CA	Waiting on final LUR from facility

Combustion

Goal 3.1.2: Manage hazardous wastes properly by having permits or other approved controls in place

Program Objectives

Approved controls in place at 85% of existing RCRA hazardous waste facilities (hazardous waste combustion facilities and MACT compliance highest priority).

Total:

% Budget Allocation: (included in the Permitting budget)

FTE/Work Years - 0.25 (included in the Permitting FTEs)

Request for Assistance

Mallinckrodt – Raleigh Pharmaceutical Plant is currently permitted to treat K083 hazardous waste in Boiler #7 in compliance with the emission limits under the Hazardous Waste Combustor MACT regulations in 40 CFR 63 Subpart EEE. The regulations in 40 CFR 63.1217(b) allow area sources of Hazardous Air Pollutants to regulate emissions of metals (except for mercury), particulate matter, and hydrogen chloride and chlorine gas under the RCRA BIF regulations in 40 CFR 266 Subpart H. The RCRA regulations include a similar provision in 40 CFR 266.100(b)(3). 270.22, and 270.66.

An evaluation was done on the Temporary Authorization and Class 3 Permit Modification *submitted in 2015 and it was decided that a number of parameters would need to be revised.*

Mallinckrodt will be submitting a revised temporary authorization request to allow Boiler #7 to comply with the RCRA BIF emission limits in 40 CFR 266.105 and 266.106. Mallinckrodt will be submitting a Class 3 permit modification request to allow Boiler #7 to comply with the RCRA BIF emission limits in 40 CFR 266.105, 266.106, and 266.107. Mallinckrodt submitted a Risk Assessment Evaluation for Boiler #7 in 2012 prior to construction of the boiler. North Carolina may need assistance during FY 16-17 in reviewing the Class 3 permit modification request and reevaluating the risk assessment to take into consideration the actual air flow rate and other operating parameters.

Accomplishments

With the assistance of EPA Region 4 the permit modification has been reviewed and a draft modified permit is schedule to be public notices in late November.

Table III-3 – RCRA Combustion, Thermal Treatment, and Open Burn & Open Detonation Related Activities

None at this time. See above for additional information.

PROGRAM ELEMENT IV: Corrective Action

Goal 3.2.2: Clean Up and Revitalize Contaminated Land

Program Objectives - Overall 2020 Baseline – National 2017 GPRA Goals

By end of FY 2017, the state should meet the following goals:

a) Assess and rank 100% of facilities in the 2020 Corrective Action Baseline.
b) Control all identified unacceptable human exposures from site contamination to at or below health-based levels for current land and/or ground-water use conditions at 94% of 2020 Corrective Action Baseline.
c) Control the migration of contaminated ground water through engineered remedies or natural processes at 88% of 2020 Corrective Action Baseline.
d) Complete construction of remedies at 69% of 2020 Corrective Action Baseline.
e) Attain corrective action performance standards at 32% of 2020 Corrective Action Baseline.

Total:
% Budget Allocation   12%

FTE/Work Years   5.0

North Carolina has exceeded the EPA 2020 goal of 95% YES for Human Exposures Controlled and continues to work toward the EPA 2020 goal of achieving 95% YES for Releases to Groundwater Under Control. We are currently at 93% YES for CA750, only 2 facilities short of meeting the goal.
North Carolina currently exceeds EPA's FY-17 goal for CA725 (goal = 94%, accomplished 96%), CA750 (goal = 88%, accomplished = 93%) and CA550 (goal=69%, accomplished=70%). While NC did not meet the EPA FY-17 goal of 32% for Performance Standards Attained (CA900 or CA999), we did exceed our projections of a cumulative accomplishment by 1 (projected 22 facilities, accomplished 23 facilities).
In addition, numerous non-GPRA items were accomplished and recorded in RCRAInfo.

After discussions with EPA Region 4 it was determined that North Carolina is responsible for CA750, CA550 and CA900 or CA999 for Caldwell Systems. This caused a revision in the NC baseline from 86 facilities to 97 facilities and caused a slight change in the cumulative percent accomplished by North Carolina.

Table IV-1: State Commitments (FY17) and Accomplishments

State 2020 Corrective Action Total Baseline = 90		CA050 Assessments	CA075 NCAPS Rankings	CA725 Human Exposures Controlled State baseline=86	CA750 Groundwater Releases Controlled State baseline=87	CA550 Remedy Construction State baseline=87	CA800 Ready for Reuse[1]	CA900/CA999 Performance Standards Attained[3] State baseline=87
	Commitment(s)	0	0	1	1	2		2
	Cumulative*	86	68	85	81	60		22
	State % (i.e., Cumulative / Baseline)	100%	100%	98%	94%	69%	%	25%
FY2017 Projections	HQs GPRA Goals	100%	100%	94%	88%	69%	■	32%
Totals including EPA lead facilities								
	Cumulative	90	90	89	85	62		22
	Total %	100%	100%	98%	94%	68%	%	24%
	Accomplishments 2020 Universe	0	0	2	1	1 (+1 EPA Accomplish)		1
	Accomplishments non 2020					2		1
FY 2017 Accompl.	State Cummulative	86	86	83	81	60		23
	State %	100%	100%	96%	93%	68%	■	26%
Totals including EPA lead facilities								
	Cumulative	87	86	87	84	63		23
	Total%	96%	100%	96%	93%	70%		25%

* - Projected, based meeting FY-16 projections

1   This code is not equivalent to a no further action decision or final cleanup of a facility.

2   Because this *RCRAInfo* event code is not (yet) an EPA HQs reporting requirement, the state is not required to complete this column.

3   Corrective Action Performance Standards Attained will count when a facility achieves any one of the following sitewide designations: CA900 CR, CA900 NC. CA999, CA999 RM, CA999 NF. To avoid double counting, every facility can only get 1 Performance Standards Attained

Permit and Corrective Action Facilities Projected for the FY- 2017 Work Plan

Permitting

Description	RCRAInfo Code	Projected Facilities FY-17	Accomplished
NOD Issued	XX100	Veolia Safety Kleen Archdale Parker Hannifin Former Deere Safety Kleen Charlotte	Veolia - Parker Hannifin Former Deere - Accomplished but not Projected Alcoa DAK DSM – Dynema DSM – Pharm Porcelanite
Alternative to Post Closure - Process Begun	PC101		
Completeness Determination	XX150	DSM Alcoa Veolia Former Deere	- - Veolia - Accomplished but not Projected DAK Parker Hannifin
Public Notice	XX160	Clean Harbors Alcoa Veolia Georgia Pacific	Clean Harbors - Veolia - Accomplished but not Projected IBM

Description	RCRAInfo Code	Projected Facilities FY-17	Accomplished
Final determination			
Final Determination	XX 200	Clean Harbors - R IBM - R Veolia - R Georgia Pacific – permit termination	Clean Harbors - R IBM - R Veolia - R - Accomplished but not Projected Glaxosmithkline – permit expired
Alternate Mechanism	PC300		

Note: **R – indicates FY-18 Renewal Baseline**

Corrective Action

Description	RCRAInfo Code	Facilities FY-16	
Human Exposure Controlled	CA725	Ashland Greensboro	- Accomplished but not Projected SK Archdale Former Heatcraft
Groundwater Migration Controlled	CA750	Safety Kleen Archdale	SK Archdale
Remedy Construction Complete	CA 550	Alcoa Petty Machine	- - Accomplished but not Projected Transco Mooresville Moog (EPA) Accomplished but not EPA 2020 Seaboard Chem YRC Freight
Performance Standards Attained	CA900 or CA999	Daimler Georgia Pacific	Daimler - Accomplished but not EPA 2020 YRC Freight

Permitting and Corrective Action Facility List

Facility	Person	ID Number	FY-18 Permit Renewal Baseline (projected renewal)
AB Carter	Mary	NCD003154010	Risk Based Closure Accomplished FY-16
Alcatel-Lucent	Mary	NCD003185238	Yes
Alcatel-Lucent	Rob	NCD003213907	Yes
Alcoa	Rob	NCD003162542	Yes
Apex Tools	Rob	NCD042892067	Yes
Ashland Raleigh	Mary	NCD088560032	
Rockwell Collins (former BE Aerospace)	Joe	NCD060302577	
Brenntag Mid-south, Inc.	Katherine	NCD003471158	Yes
Caldwell Systems	Mary	NCD086871282	
Central Maintenance	Mark	NCD060295417	
Chemical Specialties Inc.	Rob	NCD048467427	
City of Charlotte Police and Fire Training	Joe	NCD991278623	
Clariant East	Joe (Carl)	NCD001810365	
Clariant West	Mike (Larry)	NCD085074821	
Clean Harbors - Commercial	Carl	NCD000648451	Yes – completed FY-17
Conbraco (EPA LEAD)		NCD107868812	
Daimler Trucks North America	Mary	NCD018652339	
DAK	Joe	NCD047369046	Yes
Dart – Commercial	Katherine	NCD121700777	Yes – completed FY-15
Dow Corning	Joe	NCD003221546	
DSM Pharm	Carl (Rob)	NCD047373766	Yes
duPont Fayetteville	Joe (Carl)	NCD047368642	
duPont Kinston	Joe	NCD003190386	
Durable Wood	Mike	NCD003173358	Yes
Dynapar (Danaher)	Mike	NCD041466251	
Ecoflo – Commercial	Katherine	NCD980842132	Yes
Emerald Carolina Chemical	Katherine	NCD003168168	Yes
Equipment and Supply	Carl	NCD986194421	
FMC Lithium	Mike	NCD000771964	Yes – complete FY-15
Former Ashland Greensboro	Mike	NCD024599011	

Facility	Person	ID Number	FY-18 Permit Renewal Baseline (projected renewal)
Former Borden Facility (Cherokee)	Mike	NCD001725464	
Former DuPont Brevard	Mark	NCD003152329	Yes
Former Heatcraft	Mary	NCD057451270	
Former John Deere	Mike	NCD091249417	Yes
Former Schlage Lock	Rob	NCD065300519	
GE Hickory	Joe	NCD003237948	
General Timber	Rob	NCD057034449	Yes – complete FY-16
Georgia Pacific	Mary	NCD980559967	Projected FY-17
GlaxoSmithKline North	Carl	NCD065655599	Permit Expired FY-17
GlaxoSmithKline South	Carl (Rob)	NCD052547635	
Haynes Wire	Mike	NCD986190791	
IBM	Rob	NCD041463761	Yes – completed FY-17
Ingersol Rand	Mike	NCD041414772	
International Paper	Mary	NCD072022726	Yes
International Paper Charlotte Container	Mary	NCD003156460	
Kaba Ilco Unican	Kathy	NCD045646924	
Lenoir Mirror	Rob	NCD003156213	
Magneti Marelli	Rob	NCD060299880	Yes
Mallinckrodt	Katherine	NCD042091975	Yes
Marine Corp Base Camp LeJeune	Katherine	NC6170022580	
MCAB East MCAS Cherry Point	Katherine	NC1170027261	Yes – completed FY-16
Moog (E)(John Johnston)	Rob	NCD044438406	
NACCO	Carl	NCD089158323	
NCSU	Carl	NCD000830737	Yes – complete FY-15
Nexeo Solutions – Commercial	Carl	NCD061263315	Yes – complete FY-16
NIEHS/EPA	Carl	NC2750890004	
Old Asheville D& F	Mary	NCD070619663	
Parker Hannifin	Joe	NCD002591014	Yes
Performance Fibers (Invista) (John J.)	Rob	NCD041043811	
Petty Machine	Mary	NCD991278805	
Pitt County School	Mary	NCD986187458	
Porcelanite Tile	Mary	NCD986181451	

Facility	Person	ID Number	FY-18 Permit Renewal Baseline (projected renewal)
Radiator Specialty	Rob	NCD091245969	
Rental Towel	Joe	NCD986215572	
YRC (Roadway Express)	Mary	NCD046362117	
Safety Kleen Archdale - Commercial	Kathy	NCD077840148	Yes
Safety Kleen Charlotte - Commercial	Kathy	NCD079060059	Yes
Safety Kleen Raleigh – Commercial	Kathy	NCD000776740	Yes
Safety Kleen St. Pauls – Commercial	Kathy	NCD980846935	Yes
Schneider Elec (Formerly Square D)	Mary	NCD067203752	Yes
Seaboard	Joe	NCD071574164	
Seymour Johnson AFB	Katherine	NC7570024474	Yes – completed FY-15
Short Journey Center (Johnston County)	Katherine	NCD981476955	
The UNC Chapel Hill	Carl	NCD982093783	Yes – completed FY-16
Third Creek Wastewater Monofill (Statesville)		NCR000001602	Yes – complete FY-16
Three Mountaineers	Kathy	NCD003154663	
Transco Gas Pipeline – Lexington	Katherine	NCD060299765	Yes
Transco Gas Pipeline – Mooresville	Mary	NCD981863012	
Trex – Commercial	Kathy	NCD049773245	
Univar	Carl	NCD003466919	
US Coast Guard	Mark	NC2690308232	Yes
Veolia ES - Commercial	Katherine	NCD986166338	Yes – completed FY-17
Wysong & Miles	Rob	NCD982156812	
XVIII ABN Corps & Ft Bragg	Katherine	NC8210020121	

Kathy Lawson 707-8206   Katherine O'Neal 707-8209   Carl Utterback 707-8212

Bud McCarty 707-8202   Mary Siedlecki 707-8208   Mark Wilkins 707-8207

Rob McDaniel 707-8215   Mike Babuin 707-8211   Joe Ghiold 707-8375

Attachment B

NC FY-17 Actual Work Years

Title	Organization/Grant Section	Incumbent 9/30/17	Work Years	Pos. No.
Attorney	Was in the DEQ General Counsel's Office, then moved back to the Attorney General's Office and paid via contract as of 9/1/2017)	Davis, Hill	NA – paid via contract	~~
Business Officer	Compliance Branch/I, III, IV	Strawbridge, Ray	1	60034646
Engineer	Facility Mgmt Branch/III, IV	Lawson, Kathy	1	60034584
Engineer	Facility Mgmt Branch/III, IV	O'Neal, Katherine	1	60034689
Env Chemist II	Compliance Branch/II	Preston, Ann	1	60034639
Env Chemist II	Compliance Branch/II	Cooper, Harvi (retired 10/1/2017; vacant)	1	60090081
Env Chemist II	Compliance Branch/II	Concepcion, Richard	1	60034679
Env Engineer	Facility Mgmt Branch/III, IV	Utterback, Carl	1	60034583
Env Prog Supv I	Compliance Branch/II	Hunneke, Bill	1	60034577
Env Prog Supv I	Compliance Branch/II	Morris, Sean	1	60034557
Env. Prgm. Supv. II	Compliance Branch/II	Burnette, Mark	0.5	60034664
Env Senior Specialist	Compliance Branch/II	Menzel, Jeff	1	60034655
Env Senior Specialist	Compliance Branch/II	Goldman, Heather	1	60034654
Env Senior Specialist	Compliance Branch/II	Rose Pruitt [started 5/30/2017]	1	60034658
Env Senior Specialist	Compliance Branch/II	Morris, Sean	1	60034597
Env Senior Specialist	Compliance Branch/II	Burke, Don [started 10/10/16]	1	60034677
Env Senior Specialist	Compliance Branch/II	Nelms, Bobby	1	60034678
Env Senior Specialist	Compliance Branch/II	Walker, Jenne	1	60034657
Env Senior Specialist	Compliance Branch/II	Lawrence, Ernest	1	60034656
Env Senior Specialist	Compliance Branch/II	Orozco, Phil	1	60034799
Env Senior Specialist	Compliance Branch/II	Martin, Andrew	1	60034597
Env Senior Specialist	Resident Inspector Prg., Compliance Branch/II	Jack Kitchen [started 1/3/2017]	1	60034672
Env Supervisor III	Compliance Branch/II	Burch, Brent	1	60034574
Env Supervisor III	Facility Mgmt Branch/III, IV	McCarty, Bud	1	60034609

Env Supervisor IV	Section/I	Woosley, Julie	1	60034562
Financial Analyst	Compliance Branch/III, IV	Lopp, Jenny	1	60034643
Hydrogeologist	Compliance Branch/II	Wilkins, Mark	1	60034585
Hydrogeologist	Facility Mgmt Branch/III, IV	McDaniel, Rob	1	60034647
Hydrogeologist	Facility Mgmt Branch/III, IV	Siedlecki, Mary	1	60034680
Hydrogeologist	Facility Mgmt Branch/III, IV	Ghiold, Joe	1	60034559
Hydrogeologist	Facility Mgmt Branch/III, IV	Babuin, Michael	1	60034585
Industrial Hygienist	Section/I	Mort, Sandra	1	60034796
Office Asst IV	Financial & Info Mgmt Unit/I	Hinton, Sherron	1	60034648
Office Asst IV	Section/I	Galantis, Kelly	0.8	60034568
Proc Asst IV	Financial & Info Mgmt Unit/I	Webb, Nivia	1	60034567
Proc Asst V	Financial & Info Mgmt Unit	Deaver, Melodi	1	60034567
Public Info Asst. IV	Financial & Info Mgmt Unit/I	Ross, Scott	1	60034670
Safety Consultant II	Division	Polk, Brian	1	---
Special Projects Coord.	Section/I	Patterson. Jenny	1	60034565
		TOTAL	**37.3**	

Note: This table only includes positions currently paid by the grant or used as grant match. It does not include positions paid by state fees and not used for matching the federal grant.

Attachment C

FY 2017 (October 2016 – September 2017) NC Hazardous Waste Training Records		
Employee	**Training Class**	**Hours**
Heather Goldman	Hazwoper Part B	3
	LQG Workshop	8
	NCVIP Documented Coaging Session Training	0.25
	2016 BBP Training	0.25
	Security Mentor: Email Security Training	0.25
	NCVIP Performance Improvement Plan Training	0.25
	EPA Hazardous Waste Generator Improvements Final Rule	1.5
	Security Mentor: Web Security	0.25
	Security Mentor: Don't Fall Prey to Security Incidents	0.25
	Security Mentor: Information Protection	0.25
	Navigating the Proposed Pharmaceutical Rules - EHS On Tap Podcast	0.5
	Long Term Contaminant Management Using Institutional Contrls - Clu In Podcast	2.25
	Security Mentor: Computer Security	0.25
	EI Mondule 3: Interpersonal Skills	0.5
	HAZWOPER Part A	3
	Reorganization through Reduction & Reduction in Force	1.25
	EPA: Financial Assurance	14
	Security Mentor: Mobile Security Training	0.25
	EPA: Permit Writer Training	20.5
Richard Concepcion	Hazwoper Part B	4
	Haz. Waste Workshop	8
	Tech. Quick Reference	0.25
	Performance Mg. Tech.	0.25
	Sec. Mentor Training	0.25
	Bloodborne Pathogne	0.5
	Performance Mg. Training	0.25
	Tech. Reference Guid.	0.25
	Eco. Risk Assessment	8
	Eco. Risk Assessment	8
	Eco. Risk Assessment	4
	Sec. Mentor Training	0.25
	Incident Report	0.25
	McCoy's RCRA Course	8
	McCoy's RCRA Course	8
	McCoy's RCRA Course	8
	McCoy's RCRA Course	8

	McCoy's RCRA Course	5
	Depletion/ Remediation	1.25
	Introduction to ECHO	1
	ASTM / Greener Cleanups	3.5
	RCRA Equivalency Policy	1
	First Aid/CPR	4
	RCRA Webinar	1.5
	Fracking CWA	0.5
	Protecting Information	0.25
	TSCA Regulations	1.5
	MS4s (CWA)	0.5
	RCRA Improvements Rule	1.25
	EPCRA Enforcement	1.5
	Greensboro Workshop	8
	Brownfiels EPA	1.5
	Raleigh Workshop	8
	Asheville Workshop	5
	Import and Export HW	1
	Post-Closure HW Site	1
	Reuse at Capped Sites	1.5
	Risk Assessment I (Hg)	2
	Computer Security	0.25
	QAPP Development	0.5
	Risk Assessment II (M)	2
	Hazwoper Part A	2.5
	Risk Assessment III (M)	2
	Mobile Security	0.25
	Permit Writer Region 4	8
	Permit Writer Region 4	8
	Permit Writer Region 4	6
	DNAPL Site Charac.	2.25
	EPA Brownbag-Military Munitions	1
	Safety & Risk Management Leadership	1
	LQG Workshop	8
	EPA-Generator Imporvement Rule	1.5
	EPA-Stategy to Address Retail Sector Under RCRA	1.5
	BBP Training	0.5
Sean Morris	VIP Perf. Manag. Philosophy Supervisors	0.25
	VIP Perf. Manag. Philosophy Employees	0.25
	VIP Perf. Manag. Tech.	0.5
	Security Mentor-Email Security	0.25
	RCRA Expert Brownbag Series: Looking at the Big Picture: the RCRA "Functional" Equivalency Policy and the Policy on More Stringent versus Broader in Scope	1

	HWS LQG Workshop Wilmington	8
	HWS LQG Workshop Greensboro	6
	FY 16-17 Final Review Training	2
	LMS Security Incidents Training	0.25
	LMS Web Security Training	0.25
	LMS Information Protection	0.25
	LMS Computer Security	0.25
	Training with Rose	4.5
	HazWoper Part A	4
	Introducing EPA's RCRA Training Website: Training Resources	1
Rose Pruitt	ERTA	2
	One Drive, regs	8
	Skype	2
	Hazwoper A	3.5
	RCRA Fundamentals	3
	RCRA Fundamentals	3
	Blood bourne Pathogens	2
	RCRA Training Website	1
	RCRA Fundamentals	8
	Union Co Fundamentals	2
	RCRA Permit Writer Training	24
Jeff Menzel	Smoke School Multimedia	4
	BBP training	1
	ARO Multimedia Training	5
	Hardwood Products Multimedia	5
	Granite Hardwoods Multimedia	5
	First Aid/CPR/AED ARO	6
	40 CFR Part 63, Subpart DD	2
	Post-Closure Care Guidance EPA	2
	RCRA brownbag Training resources	2
	McCoy RCRA Training Tahoe NV	40
Andrew Martin	LQG Course	8
	Email Security	0.3
	NCVIP Coaching	0.3
	NCVIP Perfomance Impr.	0.3
	Web Security	0.3
	NCVIP Term/Transfer	0.3
	BBP Training	0.3
	Hazwopper Part B	3
	HW Staff Meeting/Training	5
	Security Mentor - Incident Reporting	0.5
	Security Mentor - Information Protection	0.5
	One Drive Training Class	1
	McCoys Boston	24

	Hazwopper Part A	4
	Security Mentor - Computer Security	0.5
	Security Mentor	0.5
Ernie Lawrence	Hazwoper	4
	Security Mentor - Email Security	1
	NCVIP Coaching Session	1
	NCVIP Perf Improv Plan	1
	Bloodborne Pathogens	1
	Security Mentor - Web	1
	Security Mentor - Incident	0.5
	HWS Training-Meeting	5.5
	CB Education Comm. Meeting	1
	East-West Unit Staff Meeting	2
	Educ Committee - Skype	2
	Hazwoper	4
	Security Mentor - Computer Security	0.3
Melodi Deaver	Security Mentor - Social Networking "When a Friend is Not a Friend" Completed 10/1/2016 10 minutes .17	0.17
	NCVIP Employee Technology Quick Ref Guide—Documented Coaching Session	0.17
	NCVIP Employee Technology Quick Ref Guide—Performance Eval for Transfers & Separations	0.17
	NCVIP Employee Technology Quick Ref Guide—Performance Improvement Planning	0.17
	NCVIP Performance Mgmt Technology Training for Employees – Coaching Session	0.25
	NCVIP Performance Mgmt Tech Training for Employees – Perf Improvement Planning	0.25
	Security Mentor - Email Security	0.25
	Security Mentor - Web Security	0.25
	Security Mentor - Incident Reporting	0.17
	Security Mentor - Information Protection	0.17
	Security Mentor - Computer Security Completed	0.17
	Security Mentor - Mobile Security	0.17
Antoine Pope	Security Mentor - Computer Security	0.25
	Security Mentor - Incident Reporting	0.17
	NCVIP Performance Management Philosophy for Employees	0.18
Scott Ross	Security Mentor - Social Networking "When a Friend is Not a Friend"	0.17
	NCVIP Employee Technology Quick Ref Guide—Documented Coaching Session	0.17

	NCVIP Employee Technology Quick Ref Guide—Performance Eval for Transfers & Separations	0.17
	NCVIP Employee Technology Quick Ref Guide—Performance Improvement Planning	0.17
	NCVIP Performance Mgmt Technology Training for Employees – Coaching Session	0.25
	NCVIP Performance Mgmt Tech Training for Employees – Perf Improvement Planning	0.25
	Security Mentor - Email Security Completed 12/1/2016	0.25
	Security Mentor - Web Security Completed 12/31/2016	0.25
	Security Mentor - Incident Reporting	0.17
	Security Mentor - Information Protection	0.17
	Security Mentor - Computer Security	0.25
	Security Mentor - Mobile Security	0.17
Nivia Webb	Security Mentor - Computer Security	0.25
	Security Mentor - Incident Reporting	0.17
	Security Mentor - Information Protection Completed 7/25/2017	0.17
Ray Strawbridge	Security Mentor - Social Networking "When a Friend is Not a Friend"	0.17
	Security Mentor - Email Security Completed 11/1/2016	0.25
	NCVIP Employee Technology Quick Ref Guide—Performance Improvement Planning	0.17
	NCVIP Employee Technology Quick Ref Guide—Documented Coaching Session	0.17
	NCVIP Performance Mgmt Technology Training for Employees – Coaching Session	0.25
	Hazard Communication 2012 Update (HAZCOM2012)	1
	NCVIP Employee Technology Quick Ref Guide—Performance Eval for Transfers & Separations	0.17
	Security Mentor - Web Security	0.25
	NC Learning Center Manager Orientation Course	0
	ZONE 3 FULL BENEFITS CURRICULUM	0.67
	BEACON Manager Self-Service Training	0
	BEACON HR and Payroll Overview	0
	Security Mentor - Incident Reporting	0.17
	Security Mentor - Information Protection	0.17
	PY200 - Payroll Overview, Process and Policy	2
	MS200 - Manager Self Service - New 2016	1
	Security Mentor - Computer Security C	0.25
	Security Mentor - Mobile Security	0.17
	ZONE 3 FULL TRAINING CURRICULUM	0
	Zone 3 Skillful Collaboration Completed 8/15/2017	1.33

	ZONE 3 FULL ORGANIZATION EFFECTIVENESS CURRICULUM	1.85
	ZONE 3 FULL EMPLOYEE RELATIONS CURRICULUM	0.25
	ZONE 3 FULL RECRUITMENT CURRICULUM	0
	ZONE 3 FULL LEGAL COMPLIANCE CURRICULUM	1.83
	Equal Employment Opportunity and Diversity Fundamentals (EEODF)	9.5
Sherron Hinton	Run, Hide, Fight	1
	Avoiding Sprains/Strains	1
	Be a Hazard Hero	1
Jenne Walker	NC VIP - documented coaching sessions	1
	NC VIP - Performance Imp. Planning	1
	Haz Comm update	0.5
	Email Security	0.25
	Hazwoper B	4
	Bloodborne Pathogens	0.5
	EPA webinar - retail strategy	1.5
	ECHO webinar	1.5
	EPA webinar HW gen improvements rule	1.5
	Web security (wild wild west)	0.25
	City of Raleigh Industrial Day	6
	training w/Jack K - discuss regs & Surtronics CEI findings	1
	Security Mentor - security incidents	0.25
	BEST Conference (Wake Co LEPC)	6
	Haz Waste Section Training & Meeting	6
	RCRA clu-in Webinar: Functional Equivalency v. More stringent/BIS	1
	LMS Training security mentor -sensitive info	0.25
	Hazwoper A	4
	LQG Workshop in Raleigh	8
	LMS training on computer defenses	0.25
	VIP webinar	2.25
	McCoy's RCRA refersher in Boston	8
	McCoy's RCRA refersher in Boston	8
	McCoy's RCRA refersher in Boston	8
	training w/Jack K - Sh Wms LF NOV & CEI rept	4
	Chemistry of Hazardous Materials	80
	Security Mentor/LMS mobile security onlinetraining	0.25
	RCRA clu-in Webinar on RCRA training Recources	1.5
Jack Kitchen	Haz Waste Gen Webinar	1.5
	Rules w/ Phil O	6
	Rules w/ Phil O	4
	Rules & Inspections w/ Mike W.	3

	Email Security	0.25
	Web Security	0.25
	Security Mentor/Incident Rpt	0.25
	Security Mentor/Social Networking	0.25
	Laserfiche Training	1
	BEST Conference	5
	Section Staff Meeting	5
	1st Aid	2
	CPR	2
	MultiMedia Training Carl Rose & Son Asphalt	5
	LQG Workshop - Wilmington	8
	Training - Information Protection	0.25
	LQG Workshop - Greensboro	8
	HAWOPER Part A	4
	LQG Workshop - Raleigh	8
	LQG Workshop - Asheville	8
	DEQ Leadership Forum - WSRO	1
	Rules and Reporting w/ Jenne W	4
	VIP -Document Coach	0.25
	Security - mobile devices	0.25
	Security - phishing	0.25
	Security - computer	0.25
	Bloodborne pathogens	1
	EPA Discussion - Improved Rules	1.5
	EPA Webinar retail	1
	ECHO Webinar	1
	Security Mentor Passwords	0.25
	Security Mentor Phishing	0.25
	Security Mentor Social Networking	0.25
	NCVIP Emp. Quick Reference	0.5
	NCVIP Performance Improvement Plan	0.5
	NCVIP Documented Coaching	0.5
	Generator Improvement Rule EPA Webinar	1
Phil Orozco	Blood Bourne Pathogens	0.5
	Security Mentor Email Detective	0.25
	Security Mentor Web Security	0.25
	Echo Webinar	1
	ECHO webinar - Mapping	1
	CPR Training	2
	EPA Webinar - "Functional" Equivalency Policy & More Stringent versus Broader in Scope	1
	NC Harm Reduction/Law Enforcement Summit	4
	Hazwoper	4
	LQG Workshop	8

	VIP webinar	2
	RCRAInfo Conference	24
	Security Mentor - Incident Reporting	0.5
	Security Mentor - Information Protection	0.5
	Security Mentor- Computer Defenses	0.5
	Security Mentor - Mobile Devices	0.5
	Active Shooter video	0.25
Don Burke	Green Square First Aid	3
	Green Square CPR	1.5
	Green Square Saftey Ori	1
	Email Security	0.25
	Active Shooter I	1
	Active Shooter II	1
	Active Shooter III	1
	Active Shooter Video	1
	See/Say Something	1
	HazWastGen Workshop	8
	2016 Bloodborne Pathgn	1
	Visible Emissions MMI	5
	Security Mentor/WebSec	0.25
	TED Talks:Public Speaking and Body Language	0.5
	Back Safety	0.25
	Office Safety	0.5
	HAZWOPER Part B	3
	RCRA HazWasteGen Rule	1.5
	MMI Phase II WaRO	3.5
	SecurityMentor/IncRept	0.25
	BEST Conference	8
	NSZD Webinar	1
	ECHO Webinar	0.75
	Green Square First Aid	2.5
	Green Square CPR	1
	NETI RCRA Webinar	1.5
	EPA RCRA Webinar	1.5
	SecurityMentor/InfProt	0.25
	EPA/RCRA Haz Waste ID	1.5
	EPA/RCRA Introduction to Generators	1.5
	to Generators	1.5
	SharePoint 101 Webinar	1.5
	TED Talks: Another's Perspective	0.5
	EPA Toxic Substances Control Act	1.5
	Haz Waste Generator Improvements Rule	1
	HazWastGen Workshop Wilmington	8

	HazWastGen Workshop Greensboro	8
	HAZWOPER Part A	3
	HazWastGen Workshop Raleigh	8
	ECHO Webinar	0.75
	HazWastGen Workshop Asheville	8
	SecurityMonitor/Computer Security	0.25
	TED Talks: Power of the Introverts	0.5
	RCRA Online Module: Containers	1
	RCRA Online Module: AABBCC	1
	RCRA Online Module: Hazardous Waste ID	1
	RCRA Online Module: Closure & Post Closure	1
	RCRA Online Module: Universal Waste	1
	Mobile Security	0.25
	TED Talks: On Being Wrong	0.5
	RCRA Online Module: Generators	1
	RCRA Online Module: Solid/Hazardous Waste Recycling	1
	RCRA Online Module: Exclusions - Part 1	1
	RCRA Online Module: Exclusions - Part 2	1
	RCRA NETI: Financial Assurance	1.25
	RCRA NETI/epa.gov: Land Disposal	1.5
Bill Hunneke	Safety leadership Class	2
	Generator Improvement Rule webinar	1.5
	EPA Retail Strategy	1.5
	Echo Web demonstration	1
	BB Pathogen Training	0.5
	Body Language Training	1
	Security Mentor - Web Security	0.25
	See Something Say Something	0.25
	Manager Orientation Course	0.50
	VIP Quick Ref. Documented Coaching	0.20
	VIP Quick Ref. Perf. Improvement Plan	0.20
	NCVIP Documented Coaching Session	0.50
	NCVIP Documented Coaching Session	0.25
	NCVIP Documented Coaching Session	0.20
	Avoiding Strains & Sprains	0.03
	Lazerfiche Training	0.50
	Best Conference	6
	HW Section Staff Meeting/Training	5
	DEQ Leadership Forum - Diversity	0.5
	Security Mentor - Protecting Info.	0.25
	Security Mentor - Incident Reporting	0.25
	HAZWOPER A	4
	One Drive Training	1.5
	McCoy's Training (EPA HQ Boston)	24

	Leadership Forum	0.5
	TED Talks Online Training	1
	PFOA Webinar	1
	SEEN Conference Savannah	20
Bobby Nelms	SWEOA conference	16
	HAZWOPPER Part B	4
	CPR	2
	N95 Training	0.5
	IT Security	0.5
	Hazwopper Part A	4
	Vapor Intrusion	16
Harvi Cooper	Blood Borne Pathogens	0.5
	Security Mentor	0.5
	Security Mentor	0.5
	ITRC Webinar Incremental Sampling	2
	ITRC Webinar Incremental Sampling	2
	Laserfiche 101	1
	HWS Staff Mtg/Training	6
	Risk Calculator Training	2
	Hydraulic Fracturing Webinar	1
	EPA Region 5 DRAS Webinar	1
	Hazwoper Part A Hammock's Beach	4
Rob McDaniel	NCVIP Performance Management Technology Training for Employees – Performance Improvement Planning	2
	NCVIP Performance Management Technology Training for Employees – Documented Coaching Session	2
	NCVIP Technology Quick Reference Guide—Performance Evaluation for Transfers & Separations, v2	2
	FMB Open Forum: October, January, March, April, June.	10
	ASTSWMO Annual meeting	16
	Security Mentor-Email	0.25
	EOS Remediation LLC Lessons Learned from Past EVO Projects and Remediation	2
	ECHO Webinar	1
	Security Mentor - Web Security	0.25
	RCRA Permitting toolbox	1
	Laserfiche 101 Basic Training	1
	Pedestrian Safety	1
	HW Section Staff Training Feb 5	6
	New Risk Calculator Training with Sandy Mort	2
	Risk Based Remediation Training	2
	Security Mentor – Information Protection	0.25
	HAZWOPER	8
	One Drive Training	1

	Security Mentor: Computer Security	0.25
	Investigating VI	1
	VIP Webinar	2
	Post-Closure Care Guidance for Hazardous Waste Facilities	1
	Security Mentor: Mobile Security	0.25
	Research and Development Needs for Management of DoD's PFAS Contaminated Sites	1.5
		0
Kathy Lawson	NCVIP Performance Management Technology Training for Employees – Performance Improvement Planning	2
	FMB Open Forum: October, January, March, April, June	10
	Security Mentor-Email	0.25
	Security Mentor - Web Security	0.25
	RCRA Permitting Toolbox	1
	HAZWOPER	8
	HW Section Staff Meeting/Training	5
	Permit writers Call	1.5
	Security Mentor: Computer Security	0.25
	Security Mentor: Information Protection	0.25
	Security Mentor: Incident Reporting	0.25
	NCVIP Performance Management Technology Training for Employees – Performance Improvement Planning	1
	NCVIP Employee Technology Quick Reference Guide— Performance Evaluation for Transfers & Separations, v2	1
	NCVIP Employee Technology Quick Reference Guide— Performance Improvement Planning	1
	NCVIP Performance Management Technology Training for Employees – Documented Coaching Session	1
	Security Mentor: Mobile Security	0.25
Mike Babuin	EPA Brownbag-Military Munitions	1
	FMB Open Forum: October, January, March, April, June	10
	Chemical Oxidation and Reduction Seminar	2
	EOS Remediation LLC Lessons Learned from Past EVO Projects and Remediation	2
	ECHO Webinar	1
	RCRA Permitting Toolbox	1
	HW Section Staff Meeting/Training	5
	Passive Sampling for Risk Assessments	1.5
	Security Mentor – Incident Reporting	0.25
	HAZWOPER	8

	SharePoint 101	1.5
	Security Mentor-Information Protection	0.25
	Security Mentor – Mobile security	0.25
	Security Mentor – Computer Security	0.25
	Security Mentor – Web Security	0.25
	Security Mentor – Email	0.25
	NCVIP Performance Management Technology Training for Employees – Documented Coaching Session	2
	NCVIP Employee Technology Quick Reference Guide—Performance Evaluation for Transfers & Separations, v2	2
	NCVIP Performance Management Technology Training for Employees – Performance Improvement Planning	2
	Sensible Savings Session	3.5
	EPA Brownbag-Military Munitions	1
	C-FERST webinar	1
	FMB Open Forum: October, January, March, April, June	
		10
	ASTSWMO Annual Meeting	30
	Generator Improvement Rule training (EPA)	1.5
	EOS Remediation LLC Lessons Learned from Past EVO Projects and Remediation	2
	Region 4 State Directors meeting, Dec and March	
		20
	RCRA Permitting Tool Box	1
Bud McCarty	Webinar on Proposed Financial Responsibility Requirements under CERCLA § 108(b) for Classes of Facilities in the Hardrock Mining Industry	1.5
	Long-term Contaminant Management	2
	ECHO Webinar	0.75
	HW Section Staff Meeting/Training	5
	New Risk Calculator Training with Sandy Mort	2
	NC GIS Conference	16
	Risk Based Remediation Training	2
	SharePoint 101	1.5
	One Drive Training	1
	Post-Closure Care Guidance for Hazardous Waste Facilities	1
	Hazwoper Update	8
	RCRA brownbag EPA Training Resources	1
	Security Mentor - Mobile Security	0.25
	Security Mentor - Computer Security	0.25
	Security Mentor - Information Protection	0.25

OneDrive for Business: Best Practices and Usage	1
Security Mentor - Incident Reporting	0.25
MS200 - Manager Self Service - New 2016	0.5
Security Mentor - Web Security	0.25
ZONE 3 FULL BENEFITS CURRICULUM	2
ZONE 3 FULL EMPLOYEE RELATIONS CURRICULUM	2
ZONE 3 FULL TRAINING CURRICULUM	2
ZONE 3 FULL RECRUITMENT CURRICULUM	2
Zone 3 Skillful Collaboration	2
ZONE 3 FULL ORGANIZATION EFFECTIVENESS CURRICULUM	2
ZONE 3 FULL LEGAL COMPLIANCE CURRICULUM	2
Security Mentor - Email Security	0.25
NCVIP Performance Evaluation for Transfers & Separations (PETS) Process Job Aid	1
NCVIP Performance Management Technology Training for Employees – Performance Improvement Planning	1
NCVIP Performance Management Technology Training for Employees – Documented Coaching Session	1
NCVIP Employee Technology Quick Reference Guide—Documented Coaching Session	1
NCVIP Employee Technology Quick Reference Guide—Performance Evaluation for Transfers & Separations	1
NCVIP Employee Technology Quick Reference Guide—Performance Improvement Planning	1
NCVIP Performance Management Technology Training for Managers & Supervisors – Documented Coaching Session	1
NCVIP Managers & Supervisors Technology Quick Reference Guide—Performance Evaluation for Transfers & Separations	1
NCVIP Performance Management: Performance Improvement Planning	1
NCVIP Performance Management: The Documented Coaching Session	1
NCVIP Managers & Supervisors Technology Quick Reference Guide—Documented Coaching Session	1
NCVIP Managers & Supervisors Technology Quick Reference Guide—Performance Improvement Planning	1
NCVIP Performance Management Technology Training for Managers & Supervisors – Performance Improvement Planning	
Research and Development Needs for Management of DoD's PFAS Contaminated Sites	1.5
NCVIP Performance Management Training for Employees	1
Joe Ghiold — FMB Open Forum: October, January, March, April, June	
	10

	RCRA Permitting Tool Box	1
	Security Mentor - Web Security	0.25
	HAZWOPER Part B and Part A	8
	Security Mentor-Incident Reporting	0.25
	HW Section Staff Meeting/Training	5
	Security Mentor – Information Protection	0.25
	Ground-up Cost Estimating Course	32
	Security Mentor – Computer Security	0.25
	NCVIP Employee Technology Quick Reference Guide— Performance Evaluation for Transfers & Separations, v2	2
	NCVIP Performance Management Technology Training for Employees – Performance Improvement Planning	1
	NCVIP Performance Management Technology Training for Employees – Documented Coaching Session	1
	NCVIP Employee Technology Quick Reference Guide— Performance Improvement Planning	1
	DEQ Safety & Security: Active Shooter Training - Supplemental Material I	0.5
	DEQ Safety & Security: Active Shooter Training Video 3/14/16	0.5
	DEQ Safety & Security: See Something Say Something- Video	0.5
	PeopleAdmin Position Management Module Manager Training	0.5
	NC Learning Center New User Orientation	0.5
	New User Quick Reference Card - NC Learning Center	0.5
	Security Mentor: Mobile Security	0.25
	Security Mentor: Social Networking "When a Friend is Not a Friend"	0.25
	FMB Open Forum: October, January, March, April, June	
		10
	RCRA Permitting Toolbox	1
	HW Section Staff Meeting/Training	5
	HAZWOPER Training	8
Carl Utterback	Security Mentor - Computer Security	0.25
	Security Mentor - Information Protection	0.25
	Security Mentor - Incident Reporting	0.25
	Security Mentor - Web Security	0.25
	Security Mentor - Email Security	0.25
	NCVIP Employee Technology Quick Reference Guide—Performance Evaluation for Transfers & Separations	1
	NCVIP Performance Management Technology Training for Employees – Performance Improvement Planning	1

	NCVIP Performance Management Technology Training for Employees – Documented Coaching Session	1
	NCVIP Employee Technology Quick Reference Guide—Documented Coaching Session	1
	NCVIP Employee Technology Quick Reference Guide—Performance Improvement Planning	1
	Security Mentor - Social Networking "When a Friend is Not a Friend"	0.25
	OSHR Safety - Avoiding Sprains & Strains_v1.3	0.25
	DEQ Safety & Security: Active Shooter Training Video 3/14/16	0.5
	DEQ Safety & Security: See Something Say Something- Video	0.5
	PeopleAdmin Position Management Module Manager Training	1
	NCVIP Performance Management Policy Overview, v4	1
	Introducing NCVIP	1
	NCVIP Performance Management Philosophy for Employees	1
	NCVIP Performance Management Philosophy for Managers & Supervisors	1
	Research and Development Needs for Management of DoD's PFAS Contaminated Sites	1.5
	FMB Open Forum: October, January, March, April, June	10
	ASTSWMO annual Meeting	16
	EOS Remediation LLC Lessons Learned from Past EVO Projects and Remediation	2
	ECHO Webinar	1
	RCRA Permitting Toolbox	1
	Laserfiche 101 Basic Training	1
	HW Section Staff Meeting/Training	5
	New Risk Calculator Training with Sandy Mort	2
Mary Siedlecki	Risk Based Remediation Training	2
	HAZWOPER	8
	NCVIP Employee Technology Quick Reference Guide—Performance Evaluation for Transfers & Separations, v2	1
	NCVIP Performance Management Technology Training for Employees – Documented Coaching Session	1
	NCVIP Employee Technology Quick Reference Guide—Documented Coaching Session	1
	NCVIP Performance Management Technology Training for Employees – Performance Improvement Planning	1
	NCVIP Employee Technology Quick Reference Guide—Performance Improvement Planning	1

	Security Mentor- Computer security	0.25
	Security Mentor-Mobile Security	0.25
	Security Mentor-Incident Reporting	0.25
	Security Mentor-Web Security	0.25
	Security Mentor-Email security	0.25
	Security Mentor-Information Protection	0.25
	OneDrive Training	1
	Investigating VI	1
	VIP webinar	2
	Post-Closure Care Guidance for Hazardous Waste Facilities	1
	Ground-up Cost Estimating Course	32
	Research and Development Needs for Management of DoD's PFAS Contaminated Sites	1.5
Katherine O'Neal	FMB Open Forum: October, January, March, April, June	10
	EOS Remediation LLC Lessons Learned from Past EVO Projects and Remediation	2
	RCRA Permitting Toolbox	1
	Security Mentor- Email Security	0.25
	Security Mentor- Web Security	0.25
	HW Section Staff Meeting/Training	5
	CPR Training	2
	1st Aid Training	2
	HAZWOPER	8
	Security Mentor – Information Protection	0.25
	One Drive Training	1
	Post-Closure Care Guidance for Hazardous Waste Facilities	1
	NCVIP Performance Management Technology Training for Employees – Performance Improvement Planning	1
	NCVIP Employee Technology Quick Reference Guide— Performance Improvement Planning	1
	NCVIP Employee Technology Quick Reference Guide— Performance Evaluation for Transfers & Separations, v2	1
	NCVIP Performance Management Technology Training for Employees – Documented Coaching Session	1
	Security Mentor: Computer Security	0.25
	Security Mentor: Incident Reporting	0.25
	Security Mentor: Mobile Security	0.25
Brent Burch	Safety Leadership Training – 2 hrs.	2
	Hazwoper Part B – 4 hrs	4
	Bloodborne Pathogens – 1 hr	1

	Hazardous Waste Section Training	5
	CPR/First Aid Training – 6 hrs.	6
	RCRA Equivalency Training – 1 hr	1
	Economic Benefit Training – 16 hrs	16
	Hazwoper Part A – 4 hrs.	4
	Security Mentor: Mobile Security - .5 hrs	0.5
Julie Woosley	Safety Leadership Training – 2 hrs.	2
	Hazwoper Part B – 4 hrs	4
	Training for Supervisors	20
	ASTSWMO Meetings - Aug and Oct	30
	EPA Reg IV RCRA Meetings - Dec and March	30
	DEQ Leadership Forum and related events	16
	Economic Benefit Training – 16 hrs	16
	Hazwoper Part A – 4 hrs.	4
	HWS Staff Meeting - Feb	6
	Security Mentor: Mobile Security, Office Security, Public Wifi, Computer Security, Info Protection	1
Jenny Patterson	Rulemaking 101	8
	NCVIP Performance Management Technology Training for Employees – Performance Improvement Planning	1
	Lead Poisoning Prevention & Remediation Workshop /Lead Waste Disposal	1
	Security Mentor- Email Security	0.25
	Security Mentor- Web Security	0.25
	Generator Improvement Rule training (EPA)	1.5
	OAH Fiscal Note Training	2
	Bloodborne Pathogens	1
	EPA CLU-IN - HW Generators Improvements Rule	1.5
	EPA ECHO - Data Verification	1.25
	EPA CLU-IN – Import/Export Rule	3
	Rulemaking Roundtable - December	1
	Security Mentor-Incident Reporting	0.25
	RCRA Equivalency Policy	1
	Economic Benefit Analysis	16
	Security Mentor: Computer Security	0.25
	Security Mentor – Information Protection	0.25
	Rulers Roundtable/Records Retention - April	1
	Readoption Training	2
	E-Manifest Webinar	1
	EPA E-manifest Updates	0.5
	Security Mentor: Mobile Security	0.25
	ASTSWMO Conference - August	32
	RCRA brownbag EPA Training Resources	1
	RCRA Info National User Conference	32

	Hazwoper Part B – 4 hrs	4
	Permanent Rulemaking Roundtable	2
	E-manifest Advisory Board	5
	Hazwoper Part A – 4 hrs.	4
	HWS Staff Meeting	6
Kelly Galantis	Security Mentor: Mobile Security, Office Security, Public Wifi, Computer Security, Info Protection	1
	Be a Hazard Hero	1
	Avoiding Strains & Sprains	1
	Run, Hide, Fight (Active Shooter)	0.25
	Email Security	0.25
	Security Mentor/Social Networking	0.25
	Section Staff Meeting November	6
	Section Staff Meeting February	6
	NCVIP Coaching	1
Sandy Mort	Texas A&M Univ, *Human Health Risk Assessment of Chemicals, webinars*	20.0
	EPA Ecological Risk Assessment course, Nashville, TN	15.0
	Using Passive Samplers for Human and Ecological RA, Damian Shea, PhD, NCSU, UNC-SRP	1.5
	Arsenic and Hedgehog Mouse Models of Fetal Origins of Adult Disease, Dr. Humphrey Hung-Chang Yao, NIEHS	1.0
	PFAS - Fate & Transport, Chemical Propertes, Treatment Technologies, Sampling and Analytical Methods, AFFFs, GW Attribution Study, NJ; ITRC Annual Meeting, New Orleans, LA	4.0
	Putting Exposure Risk Back in Risk Assessment (or: The Dose Makes the Poison), SOT webinar	1.5
	Vapor Intrusion webinar	1.0
	Biodegradation using PlumeStop® Liguid Activated Carbon (LAC) webinar, Regenesis	1.0
	Risk-Based Risk Assessment and Risk Calculator Training, NC DEQ DWM, Wilmington, NC	4.0
	Research and Development Needs for Management of DoD's PFAS Contaminated Sites webinar, USEPA SERDP and ESTCP	1.5
	Endocrine Disruptors, Brain and Behavior, Heather Patisul, PhD, NCSU CHHE, Raleigh NC	1.0
Nick Guglelmi	NC Learning Center Transcript Quick Reference Guide	0.1
	NC Learning Center New User Orientation	0.2
	Security Mentor - Web Protection	0.2
	Security Mentor - Incident Reporting	0.2
	Adverse Weather	1
	Cell Phone and Electronic Device Use	0.25

	EEO Policy	1
	DENR Electronic Mail	1
	Telephone Calls - Guidelines and State Travel Policy	1
	Unlawful Workplace Harrassment	1
	Employee Grievance Policy	1
	Merit-Based Recruitment and Selection Plan	1
	Secondary Employment Policy	0.5
	Secondary Employment Procedure	0.35
	Workplace Violence Policy	1
	Emergency Closing	0.5
	Executive Order No. 24 - Regarding Gifts to State Employees	1
	Security Mentor - Computer Security	0.25
	NCVIP Performance Management Policy Overview	0.5
	Hazard Communication 2012 Update	1
	Gifts and Favors Regulated	1
	Executive Order 18 Email Retention & Archiving Policy	1
	Executive Order 12 - Amending the State E-Mail Retention & Archive Policy	1
	Use of State Vehicles	1
	Retirement Handbook	1
	Retirement Supplemental Plans	1
	Safety Handbook - OSHR	1
	Worker's Compensation Handbook	1
	DENR Travel Policies & Regulations	1
	Beacon HR/Payroll Overview	1
	Employee Self Service Time Entry Course	1
	HAZWOPER Part A	4
	DWM Back Injury Prevention	0.2
	DWM Office Safety & Ergonomics	0.25
	Active Shooter: Run, Hide, Fight	0.2
	DWM Safety and Risk Management	0.35
	Security Mentor - Mobile Security	0.2
	OSHR Safety - Avoiding Sprains and Strains	0.1
	OSHR Safety - Incident Investigation & Reporting Procedures	0.3
	OSHR Safety - Be a Hazard Hero!	0.25
	OSHR Safety - Avoiding Slips, Trips, and Falls	0.25
	NCVIP Performance Management Philosophy for Employees	0.2
Ann Preston	Generator Improvement Rule training (EPA)	1.5
	Documented Coaching Session	.5
	Improvement Planning	.5
	Security Mentor - Email Security	0.25
	EPA Clu-In: Strategy to Address Retail Sector Under RCRA	1.5
	Security Mentor - Web Security	0.25

	ECHO Webinar	1
	RCRA Haz Waste Generator Rule	1.5
	BEST Conference	6
	HW Section Staff Meeting/Training	5
	Security Mentor-Incident Reporting	0.25
	RCRA Equivalency Policy	1
	Economic Benefit Analysis	16
	Security Mentor – Information Protection	0.25
	Bloodborne Pathogens	.5
	The RCRA Hazardous Waste Generator Improvements Rule	1.25
	One Drive Training	1.0
	DOT Training	11
	VIP Webinar	2
	Security Mentor - Computer Security	0.25
	HAZWOPER Part A	4
	RCRA brownbag EPA Training Resources EPA	1
	Security Mentor: Mobile Security	0.25
	Hazwoper Part B	4
Brad Bailey	Security Mentor - Computer Security	0.25
	Security Mentor - Information Protection	0.17
	Security Mentor - Email Security	0.25
	NCVIP Performance Management Technology Training for Employees – Performance Improvement Planning	0.25
	NCVIP Performance Management Technology Training for Employees – Documented Coaching Session	0.25
	Security Mentor - Social Networking "When a Friend is Not a Friend"	0.17
	Security Mentor - Phishing	0.17
	OSHR Safety - Avoiding Sprains & Strains_v1.3	0
	OSHR Safety - Avoiding Slips, Trips, & Falls (current v. 2.0)	0
	Security Mentor - Passwords	0.17

	OSHR Safety - Be A Hazard Hero!	0.25
	Managing Your Inbox: Email as a Public Record	0.5
	NCVIP Mgr/Tech Ref Guide	0.25
	NCVIP Pref Mgt	0.25
	NCVIP Pref Eval Trans & Seperations	0.25
	NCVIP Doc Coaching Sessions	0.25
	NCVIP Quick Ref Guide (Trans & Sep)	0.25
	NCVIP PETS	0.25
	Email Security	0.25
	BBP	1
	EPA Strategy Retail Sect	1
	ECHO webinar	1
	PIP	0.5
	Doc Coaching Session	0.25
	EEO	1
	Grievence Policy	0.25
	Recruitment & Posting	0.25
	NCVIP Perf Mgt Tech	0.5
	NCVIP PIP	0.5
	Security Monitor/Web Security	0.25
	Diversity & Inclusion	0.75
	EEO & you	0.5
Mark Burnette	Def Hiring	0.5
	Workplace Harassment	0.5
	Affirm Action	0.5
	Hazwoper	1
	Leave w/o Pay	0.25
	Civil Leave	0.25
	Skillful Collaboration	0.5
	Collaboration case study	0.25
	Non Collaborative Behaviors	0.25
	Group Collaboration	0.25
	Power of Words	0.25
	Collaborative Behaviors	0.25
	Purpose for Collaboration	0.25
	Collaboration Defined	0.25
	ADA Ammendments Act	1
	Laserfiche	1
	Affirmative Action	0.25
	Legally Def Hiring	0.5
	Workplace Harrassment	0.5
	Security Mentor Incident reporting	0.25
	Economic Benefit	16

	Security Mentor Info Protection	0.25
	Security Mentor Computer Security	0.25
	Workers Comp	0.5
	Title VII	0.75
	Age Discrimination	0.5
	HB 495	0.5
	Title IX	0.5
	Title VI	0.5
	Workplace Harassment	0.5
	Beacon HR & Payroll	0.5
	Haz A	5
	Security Monitoring Mobile Security x 5	0.5
	Diversity & Inclusion	0.75
	EEO	1
	EEO test	8
Anthony Foster	Sec Mentor Mobile Security	0.50
	Sec Mentor Email Security	0.50
	DEQ-N95 Respiratory Prot	5.00
	Haz B	4.00
	BBP	1.00
Mark Wilkins	NCVIP Doc Coaching Session	0.50
	NCVIP Trans & Seperation	1.00
	NCVIP Perf Improv	0.50
	Sec Mentor Computer Security	0.50
	Sec Mentor Email Sec	0.50
	Sec Mentor Incident Reporting	0.50
	Sec Mentor Info Prot	0.50
	Sec Mentor Mobile Security	0.50
Sue Page	NCVIP Doc Coaching Session	1
	NCVIP Trans & Seperation	1
	NCVIP Perf Improv	1
	OSHR Haz Hero	0.5
	OSHR Incident Investigation	0.5
	Sec Mentor Computer Security	0.5
	Sec Mentor Email Sec	0.5
	Sec Mentor Incident Reporting	0.5
	Sec Mentor Info Prot	0.5
	Sec Mentor Mobile Security	0.5
	Sec Mentor Social Network	0.5
	Sec Mentor Web Security	0.5
Total Hours		2067.4

Note: Training hours increased this year, due largely to the new DEQ Learning Management System, which provides additional required non-technical training (such as cyber security) as well as training documentation.

North Carolina FY-18
RCRA End-of-Year Grant Report

Reporting Requirements

Programmatic Conditions

1. State Grant Cybersecurity Condition

a) The recipient agrees that when collecting and managing environmental data under this assistance agreement, it will protect the data by following all applicable State law cybersecurity requirements.

b) (1) EPA must ensure that any connections between the recipient's network or information system and EPA networks used by the recipient to transfer data under this agreement, are secure.

For purposes of this Section, a connection is defined as a dedicated persistent interface between an Agency IT system and an external IT system for the purpose of transferring information. Transitory, user-controlled connections such as website browsing are excluded from this definition.

If the recipient's connections as defined above do not go through the Environmental Information Exchange Network or EPA's Central Data Exchange, the recipient agrees to contact the EPA Project Officer (PO) and work with the designated Regional/Headquarters Information Security Officer to ensure that the connections meet EPA security requirements, including entering into Interconnection Service Agreements as appropriate. This condition does not apply to manual entry of data by the recipient into systems operated and used by EPA's regulatory programs for the submission of reporting and/or compliance data.

(2) The recipient agrees that any subawards it makes under this agreement will require the subrecipient to comply with the requirements in (b)(1) if the subrecipient's network or information system is connected to EPA networks to transfer data to the Agency using systems other than the Environmental Information Exchange Network or EPA's Central Data Exchange. The recipient will be in compliance with this condition: by including this requirement in subaward agreements; and during subrecipient monitoring deemed necessary by the recipient under 2 CFR 200.331(d), by inquiring whether the subrecipient has contacted the EPA Project Officer. Nothing in this condition requires the recipient to contact the EPA Project Officer on behalf of a subrecipient or to be involved in the negotiation of an Interconnection Service Agreement between the subrecipient and EPA.

North Carolina follows cybersecurity conditions. More information available on request. No subawards were made.

1

2. EPA INVOLVEMENT IN THE COOPERATIVE AGREEMENT

EPA will be substantially involved in this cooperative agreement through programmatic oversight, and review and comment of all agreement activities and products. An End-of-Year review will be performed by EPA. EPA and the recipient shall work together on the preparation of the goals which will be addressed in a grant workplan for the following State Fiscal Year.

3. RECIPIENT PERFORMANCE REPORTING AND EPA REVIEW

For State and Tribal program recipients under 40 C.F.R. Part 35, Subparts A and B, interim and final performance reports submitted by recipients under 40 C.F.R. §§ 35.115 and 35.515 Evaluation of Performance) must adequately address progress in achieving agreed-upon outputs and outcomes. This includes ensuring that performance reports provide a satisfactory explanation of why outcomes or outputs were not achieved.

The recipient shall submit, to the EPA Project Officer, an **annual** performance report (preferably electronic copies), due each December 31st. In accordance with 2 CFR 200.328, the recipient agrees to include in the performance report any agreed-upon work-product(s) resulting from the project and brief information on each of the following areas:
   a) an abstract or overview of the project including completed workplan activities;
   b) a comparison of actual accomplishments with the anticipated outputs/outcomes specified in the assistance agreement work plan;
   c) reasons why anticipated outputs/outcomes were not met:
   d) other pertinent information, including, when appropriate, analysis and explanation of cost overruns or high unit costs;
   e) the methods to be used to effectively disseminate project information and/or continue the benefits of this project (although the project itself may not be continuing);
   f) materials generated in connection with project activities (e.g., workshop announcements, newspaper/newsletter announcements, articles or releases, press packets, pamphlets, etc.).

To promote accountability, Strategic Plan alignment, and consistent reporting, it is important to prominently display the EPA Strategic Goal, EPA Strategic Objectives, and Workplan Commitments and time frames in all technical reports.

In accordance with 2 CFR 200.328, the recipient agrees that it will notify EPA of problems, delays, or adverse conditions which materially impair the ability to meet the outputs/outcomes specified in the assistance agreement work plan.

Note: A CD including North Carolina's Hazardous Waste Generator Workshop training materials and other relevant information will be included with this report.

4. QUALITY MANAGEMENT PLAN (QMP)

Grantees implementing environmental programs that include:
   1) direct measurement, sampling or observation activities,
   2) environmental modeling,
   3) use of existing data,

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4) use of survey results, or

5) calculation of environmental outcomes

must prepare and implement a Quality Management Plan. The grantee shall submit to the EPA Project Officer (PO) an approvable QMP within 45 days of receipt of this agreement. The PO will forward the QMP to the EPA QA staff for review and approval. No data collection/use activities may occur until the QMP has been reviewed and approved by EPA.

The North Carolina "DENR" QMP is available online at this link:
http://www.ncair.org/monitor/QAPlans/DENR_QMP_2010.pdf
This plan was approved by EPA was submitted in 2010 and was approved in 2015. An updated plan was submitted for approval in 2017. A letter of competency was submitted to EPA December 17, 2018, for the Division of Waste Management.

5. COMPETENCY OF ORGANIZATIONS GENERATING ENVIRONMENTAL MEASUREMENT DATA

In accordance with Agency Policy Directive FEM-2012--02, "Policy to Assure The Competency of Organizations Generating Environmental Measurement Data Under Agency-Funded Assistance Agreements", the Recipient agrees, that by entering into this agreement, that it has demonstrated competency prior to the award or will demonstrate competency prior to carrying out activities under the award involving the generation or use of environmental data. Recipient shall maintain competency for the duration of the grant and project period of this agreement. A copy of this policy can be found at http://www.epa.gov/fem/lab_comp.htm.

A letter of competency was submitted to EPA December 17, 2018, for the Division of Waste Management and is attached. This letter and the QMP fulfill the requirements of Policy Directive FEM-2-12-12.

6. SUFFICIENT PROGRESS
EPA may terminate the assistance agreement for failure of the recipient to make sufficient progress so as to reasonably ensure completion of the project within the project period, including any extensions. EPA will measure sufficient progress by examining the performance required under the workplan in conjunction with the milestone schedule, the time remaining for performance within the project period, and/or the availability of funds necessary to complete the project.

7. MINIMUM MATCHING SHARE REQUIREMENT

This award and the resulting federal funding share of 71.50% as shown under "Notice of Award" is based on estimated costs requested in the recipient's application dated 7/24/2015. While actual total costs may differ than those estimates, the recipient is required to provide no less than 25% of the final total allowable program/project costs (outlays). EPA's participation shall not exceed the total amount of federal funds awarded or the maximum federal share for this program of 75% of the final total allowable program/project costs.

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North Carolina salary, fringe, and operating expenses paid by state fees are used for grant matching. This year, the state met the state match of $1,084,990 (30.5%) proposed in the grant application.

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EPA's Mission: To Protect Human Health and the Environment

Strategic Goals from the FY 2014-2018 EPA Strategic Plan
(in place when this grant proposal was established and approved)

Goal 1: Addressing Climate Change and Improving Air Quality
Goal 2: Protecting America's Waters
Goal 3: Cleaning Up Communities and Advancing Sustainable Development
Goal 4: Ensuring the Safety of Chemicals and Preventing Pollution
Goal 5: Protecting Human Health and the Environment by Enforcing Laws and Assuring Compliance

Cross-Agency Strategies

Working Toward a Sustainable Future
Working to Make a Visible Difference in Communities
Launching a New Era of State, Tribal, Local, and International Partnerships
Embracing EPA as a High-Performing Organization

Core Values

Science, Transparency, Rule of Law

OVERVIEW

The Department of Environmental Quality's Hazardous Waste Section (HWS) is the designated state RCRA program for North Carolina.

Program Element I: Hazardous Waste Management Program Development
For FY 2017, the HWS met all goals related to Program Element I. Final revision application for Cluster XXIII, Checklist 232; Cluster XXIV, and Checklists 234 & 235 were submitted to EPA on August 31, 2018. Draft proposed rule amendment for Cluster XXVI and Checklist 239 were submitted to EPA on August 31, 2018. Draft revision application for Clusters XV, XVI, XVII, XX, XXIII, XXIV, XXV, and XXVI were submitted to EPA on August 31, 2018. Currently the HWS is making updates and waiting on NC attorney review before submitting final application to EPA (with the exception of Clusters XVIII, Checklists for DSW which are on hold pending litigation). Cluster XXV anticipated submission date: December 2018.

Program Element II: Enforcement and Compliance, Waste Minimization and Pollution Prevention
For FY 2018, the HWS met or exceeded all goals related to Program Element II.

Additionally, the HWS continues to document waste minimization efforts during routine inspections (CEIs) by ensuring that facilities have a WM plan in place. CEIs were conducted at 309 generators during FY2018 during which WM plans and/or efforts were reviewed. If facilities had not written a full waste minimization plan, they were encouraged to do so.

Program Element III: Permitting
For FY 2018, the HWS projected eleven (11) Final Permit Determinations and achieved only five. Three were postponed due to rescheduling public hearings due to hurricanes and will be completed early in FY-19. One was postponed due to a Temporary Authorization and Class 3 modification. Others were not accomplished in part due to the diversion of resources to respond to the ongoing assessment, review, and sampling at the Chemours Fayetteville Works facility. Ten Completeness Determinations were projected and nine were accomplished. North Carolina is committed to ensuring that updated controls are a top priority.

Program Element IV: Corrective Action
For FY 2018, the HWS met or exceeded 3 of the 4 Corrective Action goals, the one goal missed was:
-   CA900 or CA999, Performance Standards Attained, with a goal of 32%. NC has achieved 26%. rojections of a cumulative accomplishment by 1.
-   There was a revision in the NC baseline back to 86 facilities. It should be noted that two years ago, NC exceeded the EPA HQ 2016 goal of 92% and were one facility from meeting the 2020 goal for this indicator.

PROGRAM ELEMENT I

Hazardous Waste Management Program Development

HW Program Element I Related to EPA Goals:
Goal 2: Protecting America's Waters
Goal 3: Cleaning Up Communities and Advancing Sustainable Development
Goal 4: Ensuring the Safety of Chemicals and Preventing Pollution
Goal 5: Protecting Human Health and the Environment by Enforcing Laws and Assuring Compliance

Total:
% Budget Allocation: 27%
FTE / Work Years: 15.0

North Carolina maintains its authorization by submitting timely and complete authorization packages and continues to improve its data management activities by ensuring that data is entered accurately and on a timely basis. The state continues to seek training opportunities, subject to the availability of resources, for new and experienced staff to ensure the program benefits from the most current developments in RCRA-related disciplines.

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Activity	FY-18 Commitments		FY-18 End of Year Accomplishments
A. Retention of State Authority (SWDA Section 3009)			
	Schedule	**Comments**	
1. Give the state's schedule for submitting its next program revision application. Specify the Cluster(s) the state plans to request authorization.	NC will be up to date on all Clusters by Sept. 1.		Final revision application for Cluster XXIII, Checklist 232; Cluster XXIV, Checklist 234 & 235 submitted on August 31, 2018. Waiting on the NC AG to review and sign the AG Statements for these Checklists.

Activity	FY-18 Commitments		FY-18 End of Year Accomplishments
(a) Give the state's schedule for submitting draft statutory and/or regulatory changes to EPA for review.	As required by July 1 if regulatory or within 2 years if statutory.		Draft proposed rule amendment for Cluster XXVI, Checklist 239 submitted to EPA on August 31, 2018. Draft revision application for Clusters XV, XVI, XVII, XX, XXIII, XXIV, XXV, XXVI submitted to EPA on August 31, 2018.
(b) Give the state's schedule for submitting final statutory and/or regulatory changes to EPA for review and approval.	30 days after change is in effect		
B. Grant Related Activities			
1. The state agrees to submit a draft work plan and grant application for FY-18	June 30, 2018		June 19, 2018
2. The state agrees to submit a final FY-16 work plan, grant application.	August 1, 2018		July 31, 2018
3. The state agrees to submit updated Document Flow Tables, if applicable	August 1, 2018		N/A
4. The state agrees to submit an End-of-Year Report summarizing the state's accomplishments during the previous fiscal year (40 CFR 31.40(b)(1)).	December 31, 2017		December 22, 2017
5. The state agrees to submit a final Financial Status Report (FSR) for the state's previous Section 3011 grant award.	December 31, 2017		By December 31, 2017
C. Training	Schedule	Comments	
1. The state agrees to submit a training needs assessment and/or training plan to EPA for review and consideration.			N.C. requested AA, BB, CC training that was held during the FY 2018 grant period.
2. Briefly describe any technical assistance the State would like EPA to provide in FY-18.		None requested	

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Activity	FY-18 Commitments		FY-18 End of Year Accomplishments
D. Data Management Activities			
1. The state agrees to maintain and update the RCRA INFO data base	On-going	Ongoing	
2. The state agrees to enter all IOR information (i.e. handler, permitting, compliance and enforcement, and corrective action activity), into RCRA INFO within 30 days of the occurrence of the activity.	On-going		Remains on-going, met goal
3. The state agrees to pursue IOR status for all modules for which the state is not the IOR.	On-going		Remains on-going
E. Encourage the use of EMS			
1. Ensure basic EMS awareness for managers and staff.	On-going		Remains on-going
2. Ensure awareness of state plans to promote EMS to key industry sectors in the hazardous waste management universe.	On-going		NC's Environmental Stewardship Initiative (see below) has not been sector-based.
3. Ensure awareness of state-wide approaches to promote EMSs	On-going		NC's Environmental Stewardship Initiative (ESI) is the primary vehicle for promoting the use of EMSs and Pollution Prevention statewide, and both are also promoted at the annual *Hazardous Waste Workshops*. Detailed information on the ESI is located at http://ncesi.org/

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PROGRAM ELEMENT II: Enforcement and Compliance

Goal 5: Protecting Human Health and the Environment by Enforcing Laws and Assuring Compliance
Objective 5.1: Enforce Environmental Laws to Achieve Compliance
Objective 4.2: Promote Pollution Prevention

Total:

% Budget Allocation: <u>49%</u>

FTE/Work Years: <u>18.5</u>

The North Carolina Hazardous Waste Section will continue to demonstrate its commitment to protecting human health and the environment through a holistic approach to Compliance and Enforcement. This will be accomplished with a proactive compliance and monitoring program that will focus on priority inspections, compliance assistance and monitoring/enforcement priorities per the RCRA Compliance Monitoring Strategy. Specifically, compliance monitoring and enforcement efforts will focus on the following: never-inspected LQGs and SQGs, non-notifiers believed to have generated hazardous waste in quantities that would require notification, repeat violators and facilities that are the subject of citizen complaints. Inspections will also meet EPA Region 4's Generator and TSDF inspection requirements. Compliance assistance activities (i.e., workshops, compliance assistance visits and phone consultations) will focus on newly regulated facilities, facilities subject to new regulations and facilities with compliance issues.

All inspections conducted will be thorough and complete as related to the RCRA regulations that apply to each facility, and the findings will be documented in a written report. Violations will be clearly documented and classified as to whether the facility is a Significant Non-Complier (SNC) or a Secondary Violator (SV). Timely and appropriate enforcement actions will be taken for violations found in accordance with EPA's Enforcement Response Policy (ERP) and penalties assessed as appropriate. The State will participate in quarterly conference calls with the designated EPA Region 4 State Coordinator, or more frequently on an as-needed basis. North Carolina will enter all accomplishments into RCRAInfo in an accurate and timely manner.

The Hazardous Waste Section will continue to support EPA Region 4 initiatives, including the national priority of Financial Assurance, and its own State Priority Sectors. All mandatory core requirements committed to in this work plan will be met and every effort will be made to meet non-core activities such as emergency response and site remediation.

During FY 18 the Hazardous Waste Section's Compliance Branch continued implementing requirements of the Mercury Switch Removal Program as reported in the previous year. The North Carolina legislation requires the removal of convenience lighting assemblies from "end-of-life" automobiles prior to crushing, shredding and recycling. Currently North Carolina ranks in the top 10 in the nation for removal efficiency. These results were achieved through the part-

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time efforts of one central office staff member providing program support and four field staff members performing 199 site evaluations. With 22.49 pounds of mercury collected this federal fiscal year, more than 1,223 pounds of mercury have been collected and recycled in North Carolina since the start of the Program. All mercury switches removed have been managed as Universal Waste. The removal of these switches from the scrap metal waste stream is expected to significantly reduce mercury emissions from secondary steel mills.

As agreed in the State Review Framework, North Carolina has reviewed groundwater reports in lieu of conducting GMEs at facilities that are permitted. These have been recorded in RCRAInfo as NRRs.

The End of Year accomplishments shown below may include facilities that were inspected more than once.

Activity	Type of Activity	FY-18	Notes	End of Year Accomplishment
1. Core Program Compliance Monitoring Activities:				
Post-Closure Universe: Land Disposal Facilities subject to Subpart F	NRR CEI	22 25	FMB See Note 1	39 43
Enforcement Monitoring (other)	CEI	6		9
Operating Permit Universe: All treatment/storage facilities (except *Combustion*)	CEI	8	See Note 1	19
Commercial Hazardous Waste Facilities (Multimedia)	CEI FCI	9 275		10 448
Operating Permit Universe: Combustion/BIF	CEI	1		1
Small Quantity Burners	FCI	2	See Note 2	2
HSWA/Corrective Action Only	CEI	7		12
Generators	CEI	160	See Note 3	202
Small Generators	CEI	60	See Note 3	107
Non-notifiers (Permit evaders)	CEI	1		8

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Activity	Type of Activity	FY-18	Notes	End of Year Accomplishment
State Priority Sectors: - UW Lamps Destination Facilities (Electrical Contractors, Property Management maintenance) - Never Inspected LQGs & SQGs - Facilities with prior NOV or Compliance Order - CRT/E-waste Recyclers	CEI	15		106
Salvage Yards (Mercury)	FCI	0		144
Citizen Complaints		40	See Note 4	101
Emergency Response		2		7
Activity	**Type of Activity**	**FY-18**	**Notes**	**End of Year Accomplishment**
Remedial Action		8		16
Support EPA initiatives, e.g. RCRA Info Financial Module		50		93
2. Enforcement Activities				
Number of NOVs/NODs	110, 115, 118 & 120	25		49
Number of follow-up inspections	CSE	25		64
Number of Show Cause/Informal meetings	219	4		5
Number of Formal Administrative Enforcement Actions	210 & 220	6		18
Number of cases referred for Civil Judicial Enforcement		1		1 (WASCO)
Number of Criminal Cases Supported		0		0

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Activity	Type of Activity	FY-18	Notes	End of Year Accomplishment
3. Compliance Assistance Activities for Core Compliance Monitoring Activities				
Compliance Assistance Visits (on-site)	CAV	60		69
Compliance Assistance (phone inquiries)		2000		5096
Presentations: -Large Generator Workshops -Environmental Educ. Support		2 2	See Notes 5 & 6	5 12

1. Will include 100% of Local, State and Federal facilities.

2. In prior years these inspections were coded as "CEIs".

3. Will include never-inspected generators, and at least 20% LQGs (147) and at least 3% of SQGs (56). The universe for LQGs is based on biennial reporting data and these inspections will be counted once.

4. Will include facilities subject to citizen complaints.

5. The National Waste Minimization Plan and North Carolina's Environmental Stewardship Initiative will continue to be promoted at these workshops.

6. Will conduct four Large Quantity Generator Workshops if state budget does not limit travel.

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PROGRAM ELEMENT III: Waste Minimization, Pollution Prevention and Permitting

Waste Minimization/Pollution Prevention

Waste Minimization Activities	FY-18 Commitments	End of Year Accomplishments
State-specific activities to promote waste minimization and pollution prevention	The Section will present a Waste Minimization Module in each of its four annual LQG Workshops.	Presented WM Module at five LQG workshops (see below for specific information)
	Waste Minimization is a part of every Compliance Evaluation Inspection (CEI), as required by manifest certifications and the Biennial Report. • Each CEI is preceded with a "Required Records/Document Checklist" that requests all documents regarding (and persons knowledgeable of) the Waste Minimization Plan for the facility and/or a description of Waste Minimization programs and methods. • Inspectors note significant comments and findings in inspection reports.	

The NC Hazardous Waste Section (Section) continues to document waste minimization (WM) efforts during routine Compliance Evaluation Inspections (CEI) by ensuring that facilities have a WM plan in place. 304 CEIs were conducted at generators during FY 18 during which WM plans and/or efforts were reviewed. If facilities had not written a full plan they were encouraged to do so.

Additionally, the Section conducted five compliance training workshops for Large Quantity Generators of Hazardous Waste. The workshops were conducted in conjunction with the North Carolina Manufacturers Alliance (NCMA). A total of 479 attendees were present throughout the Wilmington, Raleigh, Greensboro, Asheville, and Concord locations.

The Waste Minimization session of these workshops covered Resource Conservation and Recovery Act (RCRA) rules and regulations, definition & elements of a waste minimization plan, source reduction, recycling, pollution prevention, benefits of waste minimization, and waste

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minimization strategies.

The Waste Minimization session included initiatives of the US EPA. This included Sustainable Materials Management, Priority Chemicals, Lean Manufacturing, Life Cycle Assessment, and the Safer Choice Program.

The Waste Minimization session also included State of NC avenues for the Generators to consider. These avenues included State of NC tax incentives for recycling & resource recovery, electronic recycling opportunities, the NC Environmental Stewardship Initiative (ESI) program, and the Division of Environmental Assistance and Customer Service (DEACS).

NC ESI is administered through the Division of Environmental Assistance and Customer Service (DEACS). It is a voluntary, non-regulatory program. ESI's mission is to assist organizations in reducing their environmental impacts beyond regulatory requirements and recognize those that achieve and maintain this commitment. ESI has continued to grow in membership since its inaugural year in 2002. There are currently 198 member sites (private industry and public works members). This includes 29 Environmental Stewards, 11 Rising Environmental Stewards, and 54 Environmental Partners at 158 sites. The Environmental Steward level is designed for facilities with a history of commitment to exemplary environmental performance beyond what is required by law and that have demonstrated leadership. Requires aggressive goals, community involvement, integration of the EMS into core business functions, and demonstration of going beyond compliance. The Rising Environmental Steward level is designed for facilities with a mature environmental management system and measurable goals. The Environmental Partner level is designed for adoption by a broad range of organizations interested in developing a systematic approach to improving their environmental performance or strengthening existing programs.

ESI invites industry to partner with the State in reducing industrial waste from all media. Sites are successful in reducing solid waste, improving water and energy usage, and improving air quality. Participants that generate hazardous waste maintain a plan for its reduction. The participants are encouraged to develop sustainability environmental management plans to cover all areas of environmental protection and pollution prevention. This includes becoming ISO 14001 certified (Emergency Management System) and implementing an internal auditor program.

ESI Members reported overall reductions in Hazardous Waste generation of 104.92-tons (61.79-tons of Hazardous Waste and 43.13-tons of Biohazardous Waste); 50,475 pounds of Universal Waste; and a 350,911.09-ton reduction of Solid Waste to the landfill. ESI Member reduction goals also include water usage, air emissions, energy usage, material consumption, and wastewater generation. Members have saved over a hundred thousand dollars thereby making their projects well worth the effort.

NC's Waste Minimization success stories include:

American Emergency Vehicles – NCR000008920 (LQG)
American Emergency Vehicles set a goal to reduce hazardous waste haulers cost/loads per year by 25% as well as reducing the total cost of the hazardous waste spent rag product realization process. The facility reduced hazardous waste generation by 22,489 pounds in 2017.

BorgWarner Arden – NCD981025950 (SQG)
BorgWarner Arden set a goal to reduce hazardous waste by 50%. The facility was able to manage Torit dust as scrap metal; by sampling (TCLP analysis) swarf paper for hazardous waste constituents, a 99% reduction was realized (8,755 pounds).

Corning Optical Communications LLC (Hickory Manufacturing & Technology Center) - NCD981922602 (LQG)
HMTC set a goal to reduce the generation of hazardous waste by 5% for units manufactured from the 2016 baseline. HMTC met its targeted hazardous waste reduction in 2017.

Daimler Trucks North America, LLC., Gastonia – NCD091245431 (SQG)
Daimler Trucks, N.A. continued the hazardous waste generation decrease (in December 2016, Top Coat paint hazardous waste stream was eliminated &along with a reduction for annual emissions at the Gastonia site). The facility reduced hazardous waste generation by 7,926 pounds in 2017.

Fleet Readiness Center East (FRC East) – NC1170027261 (LQG)
MCAB East – MCAS Cherry Point reduced hazardous waste generation by 44,423 pounds in 2017.

Freudenberg Performance Materials - NCR000012302 (VSQG)
Freudenberg Performance Materials reduced hazardous waste generation by 1.395 tons in 2017.

Grifols Therapeutics LLC – NCD067181818 (LQG)
Grifols Therapeutics LLC reduced 12,462 pounds of hazardous waste and 86,257 pounds of biohazardous waste generated in 2017. The site now utilizes less harmful chemicals for sanitation by using only "green" cleaning chemicals for sanitation.

HAECO Americas Airframe Services – NCD986186351 (LQG)
The facility set a goal to determine possible opportunities to reduce hazardous waste streams through better handling procedures and inventory management. A 50% volume reduction of sealant waste stream was accomplished by removing outer packaging material from expired sealant kits.

Kao Specialties Americas LLC – NCD980600597 (LQG)
The facility reduced hazardous waste generation by 7.9 metric tons in 2017.

National Institute of Environmental Health Services – NC2750890004 (LQG)
National Institute of Environmental Health Services reduced hazardous waste generation by 10.4 tons in 2017.

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Pfizer (Wyeth LLC) – NCD986166544 (LQG)
Pfizer (Wyeth LLC) reduced Universal Waste generation by 50,475 pounds in 2017.

TE Connectivity - Burgess Road – NC0000359620 (VSQG)
The facility reduced harmful chemical consumption campus wide and now utilize a more neutral cleaning chemical (biodegradable) across housekeeping (from pH 13 to pH 7-8). TE Connectivity reduced hazardous waste generation by 2,557 pounds in 2017.

Additionally, multiple ESI facilities are working toward reducing their solid waste to landfills to zero through recycling programs and reuse of materials when possible.

Assistance to schools
Although the NC Hazardous Waste Section successfully completed its SC3 Grant obligations in 2010, the Section continues to provide technical assistance to schools upon request.
Industry is encouraged to provide technical assistance to local schools in their communities as a part of the Large Quantity Generator Training Workshops and other industrial education conferences. They are informed that this assistance meets their public outreach goal as encouraged in the NC Environmental Stewardship Initiative.

Permitting

Goal 3.1.2: Manage hazardous wastes properly by having permits or other approved controls in place.

Program Objectives
   a) Develop multi-year strategies to meet the annual goals.
   b) Identify what is needed in order to establish approved controls for each facility in the permitting baseline.
   c) Develop multi-year strategies to implement updated controls.

Total:
% Budget Allocation   9.0%

FTE/Work Years   3.5

North Carolina will continue to process renewal permits, permit modifications and alternatives to post-closure permits.

The NC FY-18 Permit Renewal Baseline is 36 facilities. To date, 13 permits have been renewed or terminated. NC anticipates accomplishing 2 more permit renewals in FY-19 and 9 permit renewals in FY-20. This will be a total of 24 permits reissued or terminated for a 66% accomplishment.

The facility names are provided in Attachment A of the work plan. In addition, North Carolina is authorized for the base program and Corrective Action.

Summary of Missed Accomplishments

North Carolina projected but did not accomplish a permit issuance or permit termination for Badin Business Park (formerly Alcoa), DSM, Dystar, Porcelanite, Safety Kleen Charlotte and Safety Kleen St Paul. EPA is aware that many of the NC Facility Management Branch resources have been diverted to deal with the Chemours GenX situation.

In addition, Hurricane Florence required that the Public Hearings for Badin Business Park, DSM Dyneema and DSM Pharmaceutical be postponed and thus the Public Notice was issued twice. The Public Hearings for the 3 facilities were held in FY-19 and the permits for DSM Dyneema and DSM Pharmaceutical have already been issued.

The Project Manager for Dystar was involved in a Temporary Authorization and Class 3 permit modification causing us to miss that permit renewal. The renewal is on track to be issued in FY-19.

The Branch is working with the operator of the Porcelanite facility in an effort to get the owner to sign and agree to various documents. That permit will also be issued in FY-19.

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The Project Manager for the Safety Kleen facilities retired and the position was not filled until early summer. The new Project Manager is reviewing the applications for Safety Kleen Charlotte and Safety Kleen St Paul and it is anticipated that both permits will be renewed in FY-19.

Table III-1:   RCRA Permitting Activities

Note: North Carolina is fully authorized and does not require and joint permits.

Permitting Activities	FY-18 Commitments. (Facility names are included in Appendix A)	FY-18 Accomplishments	Notes
1. 1. Part B application review and NOD or compliance action to notify applicant of deficiencies:			
- Post-Closure (PC100)	4	4	
- Storage/Treatment (OP100)	3	4	
- Subpart X			
- Incinerators/BIFs			
- Begin Alternate to PC Mechanism			
- HSWA Only	2	1	
- Enforceable Document			
2. 265 Closure Plan review and NOD or compliance action to notify applicant of deficiencies:			
- Land Disposal (CL320)			
- Incinerators/BIF			
- Storage/Treatment			
- Equivalency Petitions			
3. Completeness Determinations: (Permit applications determined complete and technically adequate and ready to proceed with draft permit).			

Permitting Activities	FY-18 Commitments. (Facility names are included in Appendix A)	FY-18 Accomplishments	Notes
- Post-Closure (PC150)	5	3	
- Storage/Treatment (OP150)	3	3	
- Subpart X			
- HSWA Only	2	3	
- Alternative to PC Mechanism			
4. Public Notices - Draft Permits (or alternate mechanisms)/Permit Denials/Closure Plans/Modifications			
- PC Plan: (CL340)			
- PC Draft Permits: (PC160)	5	2	
- Draft AOCs:			
- Storage/Treatment Draft Permits: (OP160)	4	5	2 each for DSM Pharmacutical and DSM Dynema
- Subpart X			
- Incinerators/BIFs			
- HSWA Only	3	3	2 for Badin Business Park
5. Final Determinations - Permits Issued/ Permits Denied/Closure Plans Approved/Alternate Mechanisms:			

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Permitting Activities	FY-18 Commitments. (Facility names are included in Appendix A)	FY-18 Accomplishments	Notes

- Post-Closure
  • PC Plan: (PC360)
  • Permits: (PC200)
	4	2	

- Enforceable Documents in lieu of Permit			
- Storage/Treatment (existing) Permits: (OP200)	4	1	
- Closure Plans: (OP360)			
- Incinerators/BIFs			
- Subpart X			
- HSWA Only	3	1	
- Other		1	
6. Modification – Approval/Denial – Permits and Closure Plans			
- Class 1		6	
- Class 1 with prior approval		4	
- Class 2			
- Class 3		1	
- Temporary Authorization		1	
7. Closure Certifications			
- Land Disposal (Interim CL370/380) (Permitted PC370/380)			
- Storage/Treatment (OP370/380)			
- Subpart X			
8. Miscellaneous			
- Emergency Permits			
- Temporary Authorizations			
- 5 Year Reviews	4	7	PC577xx
- Interim Measures (Work Plan) Approvals			

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Table III-2: RCRA, 2018 GPRA Hazardous Waste Facilities Issued Initial Permits or Permit Renewals or having other Approved Controls in Place.

Combined FY 2018 GPRA Baseline = 36	Commitments for Initial Permits or Renewals (Permit or Other Approved Controls in Place for all Units)		
	FY 2018 Commitment	Type of Permit/Control Operating (OP), Post Closure (PC), Corrective Action Only (CA)	Accomplishment
FY 2018	9	4 Operating 2 Post Closure 3 Corrective Action	1 Operating 2 Post-closure 2 Corrective Action

Combustion

Goal 3.1.2: Manage hazardous wastes properly by having permits or other approved controls in place

Program Objectives
Approved controls in place at 85% of existing RCRA hazardous waste facilities (hazardous waste combustion facilities and MACT compliance highest priority).

Request for Assistance
The Mallinckrodt Raleigh Pharmaceutical Plant generates K083 waste aniline distillation bottoms which it treats in Boiler #2 and Boiler #7. Boiler #2 is currently permitted to treat K083 hazardous waste in compliance with the emission limits under the Hazardous Waste Combustor MACT regulations in 40 CFR 63 Subpart EEE.
The MACT regulations in 40 CFR 63.1217(b) allow area sources of Hazardous Air Pollutants to regulate emissions of metals (except for mercury), particulate matter, and hydrogen chloride and chlorine gas under the RCRA BIF regulations in 40 CFR 266 Subpart H. The RCRA regulations include a similar provision in 40 CFR 266.100(b)(3), 270.22, and 270.66. Mallinckrodt was unable to meet the MACT emission limits for Boiler #7 and is requesting to permit Boiler #7 under the RCRA BIF rules. They are currently allowed to treat K083 hazardous waste in Boiler #7 under a Temporary Authorization approved July 1, 2016 and reissued December 22, 2016. The Class 3 permit modification request to treat K083 waste in Boiler # 7

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was submitted December 22, 2016. An NOD was issued on the modification request April 11, 2017 and the response is due May 15, 2017. A modified permit is expected to be issued before September 2017. The Boiler #7 operating limits for the modified permit have been determined from a risk assessment using emission data from Boiler #2.

Mallinckrodt will be required to conduct a risk burn on Boiler #7 and conduct a risk assessment using data from Boiler #7 to determine operating limits during permit renewal. The Mallinckrodt Hazardous Waste Management Permit will expire on September 2, 2018 and a completely new application is due March 2, 2018. Mallinckrodt has been requested to submit the following documents for Boiler #7 by October 1, 2017: Risk Assessment Protocol, Air Dispersion Modeling Protocol, Ecological Risk Assessment Protocol, Risk Burn Plan and associated Quality Assurance Project Plan.

North Carolina will need assistance during FY 17-18 and beyond reviewing the following documents for Boiler #7: Risk Assessment Protocol, Air Dispersion Modeling Protocol, Ecological Risk Assessment Protocol, Risk Burn Plan and associated Quality Assurance Project Plan, as well as the Risk Burn Report and the Human Health and Ecological Risk Assessment for Boiler #7.

Accomplishments

An NOD has been issued for the BIF portion of the Mallinckrodt Permit Renewal application. NC thanks EPA Region 4 for their assistance in this matter.

Table III-3 – RCRA Combustion, Thermal Treatment, and Open Burn & Open Detonation Related Activities

None at this time. See above for additional information.

PROGRAM ELEMENT IV: Corrective Action

Goal 3.2.2: Clean Up and Revitalize Contaminated Land

Program Objectives - Overall 2020 Baseline – National 2018 GPRA Goals

By end of FY 2017, the state should meet the following goals:

a) Assess and rank 100% of facilities in the 2020 Corrective Action Baseline.
b) Control all identified unacceptable human exposures from site contamination to at or below health-based levels for current land and/or ground-water use conditions at 94% of 2020 Corrective Action Baseline.
c) Control the migration of contaminated ground water through engineered remedies or natural processes at 88% of 2020 Corrective Action Baseline.
d) Complete construction of remedies at 69% of 2020 Corrective Action Baseline.
e) Attain corrective action performance standards at 32% of 2020 Corrective Action Baseline.

Total:
% Budget Allocation   15%

FTE/Work Years 6.0

North Carolina will continue to work toward meeting the EPA FY-18 goals for Corrective Action as listed in Table IV-1. For FY-18 we are on track to; exceed the FY-18 and the 2020 goal for Human Exposures Controlled, to exceed the FY-18 goal for Groundwater Releases Controlled, and to exceed the FY-18 goal for Remedy Construction. However based on current progress and the realization that many remedies are long term monitoring with natural attenuation or other long term options it is unlikely that we will not meet the Performance Standards Attained (CA900/CA999).

In addition, while North Carolina anticipates meeting the HQ goal of 69% for a CA550 for FY-18 it should be noted that future goal accomplishments will become more difficult. There are 3 facilities that are either marginal with respect financial capability of supporting a remediation system or are bankrupt with no available financial assurance. The missing these three facilities is noteworthy because for North Carolina to meet the EPA goal of 95% of the 2020 Universe having a Remedy Construction we cannot allow any more than 4 facilities miss the goal.

Due to the EPA Comment below the NC baseline has been reduced to 86.

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EPA Comment

For purposes of this workplan and annual reports only, NCDENR has been advised to use the total State-lead GPRA sites for calculating CA achievement percentages. The top left-hand area of the table should reflect total number of GPRA sites in North Carolina; however, the calculations should be performed using only the State-lead GPRA total. At this time, the EPA is lead for:

	CA725	CA750	CA550	CA900/999
Caldwell Systems	Yes	**NC responsibility**	**NC responsibility**	**NC responsibility**
Litton/Moog	Yes	Yes	Yes	
Edge Water Treating	Yes	Yes	Yes	
Kimberly-Clark Berkely Mills	Yes	Yes	Yes	

This brings the total number of State-lead GPRA sites to 86. Percentages should be adjusted accordingly. Also, provide a footnote listing those sites that are EPA-lead and, therefore, not included in this calculation.

FY-18 Accomplishments and Notes

In FY-18 accomplished 2 Human Exposure Under Control (CA725) of the 3 projected, 3 Remedy Construct (CA550) of the 5 projected, 2 Ready for Anticipated Use (CA800) of the 2 projected and 1 Performance Standards Achieved (CA900 or CA999) of the 1 projected.
It should be noted that NC has met or exceeded the following EPA Goals:

Human Exposure Controlled-CA725	FY-18 goal met, 2020 goal met
Groundwater Migration Controlled CA750	FY-18 goal met
Remedy Construction Complete – CA550	FY-18 goal met
Ready for Anticipated Use – CA800	FY-18 goal met

While reviewing data for this report it was noticed that double counting occurred for Performance Standards Achieved. That has been corrected and NC currently stands at 24 facilities with either a CA900 or a CA999, but a facility with both events is only counted once.

In addition to the accomplishments above the following were also accomplished and have been recorded in RCRAInfo:

Description	Event Code	Number Accomplished
Investigation Workplan Approved	CA150	4
Remedy Decision	CA400	3
Interim Measure Plan Approved	CA630	1
Interim Measures Report Reviewed / Approved	CA646	1
Institutional Controls Established	CA772	1

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Table IV-1: State Accomplishments FY18 for Achieving Key Corrective Action Facility Milestones by 2018

State 2020 Corrective Action Baseline: NC only 86 Total 90			RCRAInfo Event Code						
			CA050 Assessments	CA075 NCAPS Rankings	CA725 Human Exposures Controlled	CA750 Groundwater Releases Controlled	CA550 Remedy Construction	CA800 Ready for Reuse[1]	CA900/CA999 Performance Standards Attained[2]
Accomplish FY-18 Including EPA Facilities	Accomplished		0	0	2	0	3	2	1
	Cumulative		90	90	89	84	64	2	24
	Total % (i.e., Cumulative / Baseline)		100%	100%	98%	93%	71%		26%
	HQs GPRA Goals		100%	100%	94%	88%	69%	2 facilities	32%

[1] This code is not equivalent to a no further action decision or final cleanup of a facility.

[2] Corrective Action Performance Standards Attained will count when a facility achieves any one of the following sitewide designations: CA900 CR, CA900 NC, CA999, CA999 RM, CA999 NF. To avoid double counting, every facility can only get 1 Performance Standards Attained

Permitting and Corrective Action Facility List

Facility	Person	ID Number	FY-18 Permit Renewal Baseline (projected renewal)
AB Carter	Mary	NCD003154010	Risk Based Closure Accomplished FY-16
Alcatel-Lucent	Mary	NCD003185238	Yes
Alcatel-Lucent	Rob	NCD003213907	Yes
Alcoa	Rob	NCD003162542	Yes
Apex Tools	Rob	NCD042892067	Yes
Ashland Raleigh	Mary	NCD088560032	
Rockwell Collins (former BE Aerospace)	Joe	NCD060302577	
Brenntag Mid-south, Inc.	Katherine	NCD003471158	Yes
Caldwell Systems	Mary	NCD086871282	
Central Maintenance	Mark	NCD060295417	
Chemical Specialties Inc.	Rob	NCD048467427	
City of Charlotte Police and Fire Training	Joe	NCD991278623	
Clariant East	Joe (Carl)	NCD001810365	
Clariant West	Mike (Larry)	NCD085074821	
Clean Harbors - Commercial	Carl	NCD000648451	Yes – completed FY-17
Conbraco (EPA LEAD)		NCD107868812	
Daimler Trucks North America	Mary	NCD018652339	
DAK	Joe	NCD047369046	Yes
Dart – Commercial	Katherine	NCD121700777	Yes – completed FY-15
Dow Corning	Joe	NCD003221546	
DSM Pharm	Carl (Rob)	NCD047373766	Yes
duPont Fayetteville	Joe (Carl)	NCD047368642	
duPont Kinston	Joe	NCD003190386	
Durable Wood	Mike	NCD003173358	Yes
Dynapar (Danaher)	Mike	NCD041466251	
Ecoflo – Commercial	Katherine	NCD980842132	Yes
Emerald Carolina Chemical	Katherine	NCD003168168	Yes
Equipment and Supply	Carl	NCD986194421	
FMC Lithium	Mike	NCD000771964	Yes – complete FY-15
Former Ashland Greensboro	Mike	NCD024599011	

Facility	Person	ID Number	FY-18 Permit Renewal Baseline (projected renewal)
Former Borden Facility (Cherokee)	Mike	NCD001725464	
Former DuPont Brevard	Mark	NCD003152329	Yes
Former Heatcraft	Mary	NCD057451270	
Former John Deere	Mike	NCD091249417	Yes
Former Schlage Lock	Rob	NCD065300519	
GE Hickory	Joe	NCD003237948	
General Timber	Rob	NCD057034449	Yes – complete FY-16
Georgia Pacific	Mary	NCD980559967	Projected FY-17
GlaxoSmithKline North	Carl	NCD065655599	Permit Expired FY-17
GlaxoSmithKline South	Carl (Rob)	NCD052547635	
Haynes Wire	Mike	NCD986190791	
IBM	Rob	NCD041463761	Yes – completed FY-17
Ingersol Rand	Mike	NCD041414772	
International Paper	Mary	NCD072022726	Yes
International Paper Charlotte Container	Mary	NCD003156460	
Kaba Ilco Unican	Kathy	NCD045646924	
Lenoir Mirror	Rob	NCD003156213	
Magneti Marelli	Rob	NCD060299880	Yes
Mallinckrodt	Katherine	NCD042091975	Yes
Marine Corp Base Camp LeJeune	Katherine	NC6170022580	
MCAB East MCAS Cherry Point	Katherine	NC1170027261	Yes – completed FY-16
Moog (E)(John Johnston)	Rob	NCD044438406	
NACCO	Carl	NCD089158323	
NCSU	Carl	NCD000830737	Yes – complete FY-15
Nexeo Solutions – Commercial	Carl	NCD061263315	Yes – complete FY-16
NIEHS/EPA	Carl	NC2750890004	
Old Asheville D& F	Mary	NCD070619663	
Parker Hannifin	Joe	NCD002591014	Yes
Performance Fibers (Invista) (John J.)	Rob	NCD041043811	
Petty Machine	Mary	NCD991278805	
Pitt County School	Mary	NCD986187458	
Porcelanite Tile	Mary	NCD986181451	
Radiator Specialty	Rob	NCD091245969	

Facility	Person	ID Number	FY-18 Permit Renewal Baseline (projected renewal)
Rental Towel	Joe	NCD986215572	
YRC (Roadway Express)	Mary	NCD046362117	
Safety Kleen Archdale - Commercial	Kathy	NCD077840148	Yes
Safety Kleen Charlotte - Commercial	Kathy	NCD079060059	Yes
Safety Kleen Raleigh – Commercial	Kathy	NCD000776740	Yes
Safety Kleen St. Pauls – Commercial	Kathy	NCD980846935	Yes
Schneider Elec (Formerly Square D)	Mary	NCD067203752	Yes
Seaboard	Joe	NCD071574164	
Seymour Johnson AFB	Katherine	NC7570024474	Yes – completed FY-15
Short Journey Center (Johnston County)	Katherine	NCD981476955	
The UNC Chapel Hill	Carl	NCD982093783	Yes – completed FY-16
Third Creek Wastewater Monofill (Statesville)		NCR000001602	Yes – complete FY-16
Three Mountaineers	Kathy	NCD003154663	
Transco Gas Pipeline – Lexington	Katherine	NCD060299765	Yes
Transco Gas Pipeline – Mooresville	Mary	NCD981863012	
Trex – Commercial	Kathy	NCD049773245	
Univar	Carl	NCD003466919	
US Coast Guard	Mark	NC2690308232	Yes
Veolia ES - Commercial	Katherine	NCD986166338	Yes – completed FY-17
Wysong & Miles	Rob	NCD982156812	
XVIII ABN Corps & Ft Bragg	Katherine	NC8210020121	

Caroline Bari 707-8325   Katherine O'Neal 707-8209   Carl Utterback 707-8212

Bud McCarty 707-8202   Mary Siedlecki 707-8208   Mark Wilkins 707-8207

Rob McDaniel 707-8215   Mike Babuin 707-8211   Joe Ghiold 707-8375

Permit and Corrective Action Facilities Projected for the FY- 2018 Work Plan

Permitting

Description	RCRAInfo Code	Facilities FY-18	Accomplishments
NOD Issued	XX100	Apex Tool Brenntag Mid-south DAK Dystar Carolina Chemical International Paper Wilmington Magneti Marelli Safety Kleen Raleigh Safety Kleen St Paul USCG Elizabeth City	Apex Tool - - Dystar Carolina Chemical - - - Safety Kleen St Paul - Accomplished but not Projected Former Alcatel Raleigh (now Nokia, Raleigh)(2) Mallinckrodt (boiler) Nokia (Winston) Porcelanite Safety Kleen Archdale Safety Kleen Charlotte
Alternative to Post Closure - Process Begun	PC101		

Description	RCRAInfo Code	Facilities FY-18	Accomplishments
Completeness Determination	XX150	Alcatel-Lucent (Raleigh) Alcatel-Lucent (Winston Salem) Apex Tool DAK Dystar Former John Deere Porcelanite Safety Kleen Archdale Safety Kleen Charlotte Safety Kleen St Paul	Former Alcatel Raleigh (now Nokia, Raleigh) - - DAK Dystar Former John Deere - Safety Kleen Archdale - - Accomplished but not Projected Badin Business Park (former Alcoa) DSM Dyneema DSM Pharm. Parker Hannifin
Public Notice	XX160	Alcatel Lucent (Raleigh) Alcatel Lucent (Winston Salem) Alcoa Apex Tool DSM Dystar Former John Deere Parker Hannifin Porcelanite Safety Kleen Archdale Safety Kleen Charlotte Safety Kleen St Paul	Former Alcatel Raleigh (now Nokia, Raleigh) - Badin Business Park (former Alcoa) (2) - DSM Dyneema (2) DSM Pharm (2) - Former John Deere Parker Hannifin - Safety Kleen Archdale - -

Description	RCRAInfo Code	Facilities FY-18	Accomplishments
Final determination			
Final Determination	XX 200	Alcatel Lucent (Raleigh) [R]	Former Alcatel Raleigh (now Nokia, Raleigh)
		Alcoa [R]	-
		DSM [R]	-
		Dystar [R]	-
		Former John Deere [R]	Former John Deere
		Parker Hannifin [R]	Parker Hannifin
		Porcelanite	-
		Safety Kleen Archdale [R]	Safety Kleen Archdale
		Safety Kleen Charlotte [R]	-
		Safety Kleen St Paul [R]	-
		YRC – termination	Accomplished FY-17
			Accomplished but not Projected Georgia Pacific (terminated)
Alternate Mechanism	PC300		

Note: R – indicates FY-18 Renewal Baseline

Corrective Action

Description	RCRAInfo Code	Facilities FY-18	Accomplishments
Human Exposure Controlled	CA725	Former Ashland Greensboro Clariant West Trex	Former Ashland Greensboro Clariant West -
Groundwater Migration Controlled	CA750		
Remedy Construction Complete	CA 550	Dow Ft Bragg Petty Machine Safety Kleen Archdale Seymore John AFB	- - Petty Machine - - Accomplished but not Projected Former Heatcraft Georgia Pacific
Performance Standards Attained	CA900 or CA999	Petty Machine	- Accomplished but not Projected Georgia Pacific

Attachment B

NC FY-18 Actual Work Years

Title	Organization/Grant Section	Incumbent 9/30/17	Work Years	Pos. No.
Attorney	Paid via contract with the Attorney General's Office as of 9/1/2017	Davis, Hill	NA – paid via contract	~~
Business Officer	Compliance Branch/I, III, IV	Twining, Christine (formerly Ray Strawbridge)	1	60034646
Engineer	Facility Mgmt Branch/III, IV	Bari, Caroline (formerly Kathy Lawson)	1	60034584
Engineer	Facility Mgmt Branch/III, IV	O'Neal, Katherine	1	60034689
Env Chemist II	Compliance Branch/II	Preston, Ann	1	60034639
Env Chemist II	Compliance Branch/II	Romanski, Autumn (formerly Harvi Cooper)	1	60090081
Env Chemist II	Compliance Branch/II	Concepcion, Richard	1	60034679
Engineer	Facility Mgmt Branch/III, IV	Utterback, Carl	1	60034583
Env Prog Supv I	Compliance Branch/II	Goldman, Heather (formerly Bill Hunneke)	1	60034577
Env Prog Supv I	Compliance Branch/II	Morris, Sean	1	60034557
Env. Prgm. Supv. II	Compliance Branch/II	Burnette, Mark	0.5	60034664
Env Senior Specialist	Compliance Branch/II	Menzel, Jeff	1	60034655
Env Senior Specialist	Compliance Branch/II	Vacant (formerly Goldman, Heather)	1	60034654
Env Senior Specialist	Compliance Branch/II	Rose Pruitt	1	60034658
Env Senior Specialist	Compliance Branch/II	Guglielmi, Nick	1	60034597
Env Senior Specialist	Compliance Branch/II	Burke, Don	1	60034677
Env Senior Specialist	Resident Inspector Prg., Compliance Branch/II	Nelms, Bobby	1	60034678
Env Senior Specialist	Compliance Branch/II	Walker, Jenne	1	60034657
Env Senior Specialist	Resident Inspector Prg Compliance Branch/II	Foster, Anthony	1	60034656
Env Senior Specialist	Resident Inspector Prg Compliance Branch/II	Bailey, Brad	1	60034799
Env Senior Specialist	Compliance Branch/II	Martin, Andrew	1	60034597

Env Senior Specialist	Compliance Branch/II	Jack Kitchen	1	60034672
Env Supervisor III	Compliance Branch/II	Burch, Brent	1	60034574
Env Supervisor III	Facility Mgmt Branch/III, IV	McCarty, Bud	1	60034609
Env Supervisor IV	Section/I	Woosley, Julie	1	60034562
Financial Analyst	Compliance Branch/III, IV	Lopp, Jenny	1	60034643
Hydrogeologist	Compliance Branch/II	Wilkins, Mark	1	60034585
Hydrogeologist	Facility Mgmt Branch/III, IV	McDaniel, Rob	1	60034647
Hydrogeologist	Facility Mgmt Branch/III, IV	Siedlecki, Mary	1	60034680
Hydrogeologist	Facility Mgmt Branch/III, IV	Ghiold, Joe	1	60034559
Hydrogeologist	Facility Mgmt Branch/III, IV	Babuin, Michael	1	60034585
Industrial Hygienist	Section/I	Amy Risen (formerly Sandy Mort)	1	60034796
Admin Spec I (formerly Office Asst IV)	Financial & Info Mgmt Unit/I	Hinton, Sherron	1	60034648
Admin Spec I (formerly Office Asst IV)	Section/I	Galantis, Kelly (formerly Sue Page)	0.8	60034568
Admin Spec I (formerly Proc Asst IV)	Financial & Info Mgmt Unit/I	DeGarmo, Laura (formerly Webb, Nivia)	1	60034567
Admin Spec I (formerly Proc Asst V)	Financial & Info Mgmt Unit	Deaver, Melodi	1	60034567
Admin Spec I (formerly Public Info Asst. IV)	Financial & Info Mgmt Unit/I	Ross, Scott	1	60034670
Admin Spec I (formerly Office Asst IV)	Section/I	Valdmets, Lisa (formerly Kelly Galantis)	1	60034671
Acct Clerk I (formerly Acct Clerk IV)	Financial & Info Mgmt Unit	Vacant (formerly Antoine Pope)	1	60034569
Safety Consultant II	Division	Polk, Brian	1	~
Special Projects Coord.	Section/I	Patterson, Jenny	1	60034565
		TOTAL	**39.3**	

Note: This table only includes positions currently paid by the grant or used as grant match. It does not include positions paid by state fees and not used for matching the federal grant.

Attachment C – Staff Training

Employee	Training Class	Hours
FY 2018 (October 2017 – September 2018) NC Hazardous Waste Training Records		
Nick Guglelmi	Vapor Intrusion: The Conference II	16
	RCRA 8-Hour Refresher - Part B	4
	DEQ Safety and Security: Active Shooter Training	4.1
	Security Mentor - Public Wifi	0.2
	Haz Waste Compliance Workshop	6
	NCVIP Performance Management Philosophy for Managers & Supervisors	0.2
	NCVIP Performance Management Technology Training for Employees	0.7
	EPA AA/BB/CC Training	12
	Security Mentor - Office Security	0.2
	Adverse Weather Policy: Plan, Educate, Communicate	0.2
	Security Mentor - Social Engineering	0.25
	Preventing Workplace Harassment	0.3
	Fire Extinguisher Awareness Training	0.3
	Sexual Harassment Training Webinar	2
	HWGIR Training (MRO)	2
	McCoy's RCRA Seminar	8
	McCoy's RCRA Seminar	8
	McCoy's RCRA Seminar	8
	McCoy's RCRA Seminar	8
	McCoy's RCRA Seminar	4
	Security Mentor - Insider Threat	0.25
	Security Mentor - Working Remotely	0.25
	Security Mentor - Computing in the Cloud	0.25
Richard Concepcion	RCRA---LDR's	1
	Vapor Intrusion Course	8
	Vapor Intrusion Course	6
	HWS Concord Workshop	8
	Public WiFi (NC-State)	0.25
	RCRA Organic Emissions	6.5
	RCRA Organic Emissions	4.5
	HAZWOPER Part B	4
	RCRA Corrective Action Site	1

	GPS Training	1
	Security Office	0.25
	Adverse Weather Policy	0.25
	Active Shooter	0.25
	Something-See/Say	0.25
	Generators Rules	3
	BEST Conference	6
	Workshop Training	2
	Workshop Training	2
	Incremental Sampling	32
	Social Engineering	0.25
	Fire Extinguisher	0.25
	Workplace Harassment	0.5
	Insider Threat	0.25
	Environmental Enforcement (SEEM)	24
	Subpart K	2.5
	HAZWOPER Part A	4
	Legal Pitfalls RCRA	1
	Working Remotely	0.25
	Fire Extinguisher	0.25
	Sexual Harassment	2
	RCRA Inspector	20
	Best Management Plan	2
	First Aid / CPR	4
	Computing in the Claud	0.25
Rose Pruitt	RCRA's LDR Program	1
	Vapor Intrusion	12
	HW workshop Concord	7
	EPA Air Emissions	12
	Cyber Awareness	2
	E-Plan/ Jenny P	1
	BEST/Haz Materials	8
	HWGIR- New Rules	8
	e-manifest webinar	1
	Subpart K- New rules	3
	Gen Workshop- Wilmington	8

	Gen Workshop- Greensboro	8
	HR Compensation Webex	1
	Gen Workshop- Raleigh	8
	HazWoper A	3
	Gen Workshop- Asheville	8
	Sex harassment training	2
	1st aid - cpr	4
	McCoys	16
	DEQ Incident	1
Jeff Menzel	ITRC Groundwater Statistics	2.5
	BBP training	1
	Hazwoper B	4
	EPA Removal process for RPMs	14
	EPA Air Emissions	12
	Web security training mod	0.5
	RCRA Corrective Action Site	2
	Security Mentor 4 modules/Adverse weather 1 mod	1.5
	Advanced ECHO Webinar	1.5
	Corrective Action Sites	1.5
	HWGIR & Subpart K Training	3
	Hazwoper A	4
	Sexual Harassment and Discrimination	3
	Cloud Security	1
	Incident Response Data Entry	1
Andrew Martin	Morganton Hazwoper	4
	EPA Removal Training	16
	Security Mentor: Wifi	0.5
	Active Shooter	0.5
	BBP	1
	RCRA Air Training	16
	Office Security	0.5
	Security Mentor: Social Engineering	0.5
	Fire Extinguisher	0.5
	HWGIR & Subpart K Training	3
	Security Mentor - Insider Threat	0.5

	PREVENTING WORKPLACE HARASSMENT	0.5
	Hazwoper Part A	4
	DEQ Sexual Harassment and Discrimination Prevention	2
	Security Mentor - Working Remotely	0.5
	DEQ Incident Response Data Entry and Editing Applications	2
Ernie Lawrence	Organic Air Emissions	12
	Bloodborne Pathogens	1
	Hazwoper B	4
	Security Mentor - Mobile Security	0.25
	Security Mentor - Public Wifi	0.25
	Security Mentor - Office Security	0.25
	Security Mentor - Phishing	0.25
	Security Mentor - Social Networking	0.25
	Security Mentor - Information Protection	0.25
	HWGIR	4
	Subpart K	4
	Hazwoper A	4
	Sexual Harassment	2
	Beware Others Manipulate You	1
	Preventing Workplace Harass v2	1
	Security Mentor-Insider Treat	1
	DEQ Incident Response	1
Sean Morris	EEODF Training LMS	1.5
	HWS Staff Meeting/Training	8
	EPA AABBCC Training	14
	Water/Wastewater Operation & Maintenance Training	8
	BBP Training	0.5
	EEODF Training	8
	Hazwoper Part B Online	4
	HWGIR Training MRO	2.5
	Security Mentor - Mobile Security	0.25
	Security Mentor - Public Wifi	0.25
	Security Mentor - Office Security	0.25
	Security Mentor - Social Eng. Lesson	0.25

	DEQ Fire Extinguisher Awareness	0.25
	HWS Staff Meeting	4.5
	LQG Workshop Wilmington	6
	LQG Workshop Greensboro	6
	HazWoper Part A Online Training	3
	Training w/ Heather	5.5
	RCRA Expert Brownbag Series: Navigating the Legal Pitfalls of RCRA State Authorization	1
	DEQ Incident Response Training	1
Nick Guglelmi	Vapor Intrusion: The Conference II	16
	RCRA 8-Hour Refresher - Part B	4
	DEQ Safety and Security: Active Shooter Training	4.1
	Security Mentor - Public Wifi	0.2
	Haz Waste Compliance Workshop	6
	NCVIP Performance Management Philosophy for Managers & Supervisors	0.2
	NCVIP Performance Management Technology Training for Employees	0.7
	EPA AA/BB/CC Training	12
	Security Mentor - Office Security	0.2
	Adverse Weather Policy: Plan, Educate, Communicate	0.2
	Security Mentor - Social Engineering	0.25
	Preventing Workplace Harassment	0.3
	Fire Extinguisher Awareness Training	0.3
	Sexual Harassment Training Webinar	2
	HWGIR Training (MRO)	2
	McCoy's RCRA Seminar	8
	McCoy's RCRA Seminar	8
	McCoy's RCRA Seminar	8
	McCoy's RCRA Seminar	8
	McCoy's RCRA Seminar	4
	Security Mentor - Insider Threat	0.25
	Security Mentor - Working Remotely	0.25
	Security Mentor - Computing in the Cloud Cloud	0.25
Richard Concepcion	RCRA---LDR's	1
	Vapor Intrusion Course	8
	Vapor Intrusion Course	6
	HWS Concord Workshop	8
	Public WiFi (NC-State)	0.25

	RCRA Organic Emissions	6.5
	RCRA Organic Emissions	4.5
	HAZWOPER Part B	4
	RCRA Corrective Action Site	1
	GPS Training	1
	Security Office	0.25
	Adverse Weather Policy	0.25
	Active Shooter	0.25
	Something-See/Say	0.25
	Generators Rules	3
	BEST Conference	6
	Workshop Training	2
	Workshop Training	2
	Incremental Sampling	32
	Social Engineering	0.25
	Fire Extinguisher	0.25
	Workplace Harassment	0.5
	Insider Threat	0.25
	Environmental Enforcement (SEEM)	24
	Subpart K	2.5
	HAZWOPER Part A	4
	Legal Pitfalls RCRA	1
	Working Remotely	0.25
	Fire Extinguisher	0.25
	Sexual Harassment	2
	RCRA Inspector	20
	Best Management Plan	2
	First Aid / CPR	4
	Computing in the Claud	0.25
Rose Pruitt	RCRA's LDR Program	1
	Vapor Intrusion	12
	HW workshop Concord	7
	EPA Air Emissions	12
	Cyber Awareness	2
	E-Plan/ Jenny P	1
	BEST/Haz Materials	8
	HWGIR- New Rules	8
	e-manifest webinar	1
	Subpart K- New rules	3
	Gen Workshop- Wilmington	8

	Gen Workshop- Greensboro	8
	HR Compensation Webex	1
	Gen Workshop- Raleigh	8
	HazWoper A	3
	Gen Workshop- Asheville	8
	Sex harassment training	2
	1st aid - cpr	4
	McCoys	16
	DEQ Incident	1
Jeff Menzel	ITRC Groundwater Statistics	2.5
	BBP training	1
	Hazwoper B	4
	EPA Removal process for RPMs	14
	EPA Air Emissions	12
	Web security training mod	0.5
	RCRA Corrective Action Site	2
	Security Mentor 4 modules/Adverse weather 1 mod	1.5
	Advanced ECHO Webinar	1.5
	Corrective Action Sites	1.5
	HWGIR & Subpart K Training	3
	Hazwoper A	4
	Sexual Harassment and Discrimination	3
	Cloud Security	1
	Incident Response Data Entry	1
Andrew Martin	Morganton Hazwoper	4
	EPA Removal Training	16
	Security Mentor: Wifi	0.5
	Active Shooter	0.5
	BBP	1
	RCRA Air Training	16
	Office Security	0.5
	Security Mentor: Social Engineering	0.5
	Fire Extinguisher	0.5
	HWGIR & Subpart K Training	3
	Security Mentor - Insider Threat	0.5
	PREVENTING WORKPLACE HARASSMENT	0.5
	Hazwoper Part A	4
	DEQ Sexual Harassment and Discrimination Prevention	2
	Security Mentor - Working Remotely	0.5

	DEQ Incident Response Data Entry and Editing Applications	2
Ernie Lawrence	Organic Air Emissions	12
	Bloodborne Pathogens	1
	Hazwoper B	4
	Security Mentor - Mobile Security	0.25
	Security Mentor - Public Wifi	0.25
	Security Mentor - Office Security	0.25
	Security Mentor - Phishing	0.25
	Security Mentor - Social Networking	0.25
	Security Mentor - Information Protection	0.25
	HWGIR	4
	Subpart K	4
	Hazwoper A	4
	Sexual Harassment	2
	Beware Others Manipulate You	1
	Preventing Workplace Harass v2	1
	Security Mentor-Insider Treat	1
	DEQ Incident Response	1
Sean Morris	EEODF Training LMS	1.5
	HWS Staff Meeting/Training	8
	EPA AABBCC Training	14
	Water/Wastewater Operation & Maintenance Training	8
	BBP Training	0.5
	EEODF Training	8
	Hazwoper Part B Online	4
	HWGIR Training MRO	2.5
	Security Mentor - Mobile Security	0.25
	Security Mentor - Public Wifi	0.25
	Security Mentor - Office Security	0.25
	Security Mentor - Social Eng. Lesson	0.25
	DEQ Fire Extinguisher Awareness	0.25
	HWS Staff Meeting	4.5
	LQG Workshop Wilmington	6
	LQG Workshop Greensboro	6
	HazWoper Part A Online Training	3
	Training w/ Heather	5.5
	RCRA Expert Brownbag Series: Navigating the Legal Pitfalls of RCRA State Authorization	1
	DEQ Incident Response Training	1

	Research and Development Needs for Management of DoD's PFAS Contaminated Sites	1.5
	Hazwoper Part B	4
	Security Mentor – Public Wifi	0.25
	Active Shooter Awareness Training - Run, Hide, Fight	0.25
	EPA Equis Training	1
	HW Section Annual meeting	8
	EPA Organic Air Training	14
	Office Security	0.25
	FMB Open Forum	2
	Adverse Weather	0.25
	FMB Open Forum	2
	Security Mentor – Social Engineering Lesson	0.25
	Preventing Workplace Harassment	0.25
	FMB Open Forum	2
	ITRC – Integrated DNAPL Site Characterization	2.25
	Remedy Selection for Contaminated Sediments	2.25
	FMB Open Forum	2
Bud McCarty	Soil Sampling and Decision Making Using Incremental Sampling Methodology Part 2	2.25
	Geospatial Analysis for Optimization at Environmental Sites	2.25
	Security Mentor - Inside threat	0.25
	HAZWOPER Part A	4
	DEQ–Sexual Harassment and Discrimination Prevention Training	2
	FMB Open Forum	2
	Earthquakes, Sinkholes, Landslides, Water, Minerals and Energy: 24 Years of Addressing Geohazards and Resource Needs in North Carolina	1
	Security Mentor - Working Remotely	0.25
	FMB Open Forum	2
	FMB Open Forum	2
	Security Mentor - Cloud Security - Computing in the Cloud!	0.25
	FMB Open Forum	2
	FMB Open Forum	2
	Emerging Contaminants in the Ambient Environment	9
	HW Section Annual meeting	8
Kathy Lawson	EPA Organic Air Training	14
	FMB Open Forum	2
	FMB Open Forum	2

	Security Mentor – Public Wi-fi	0.5
	HW Section Annual meeting	8
	EPA Organic Air Training	14
	HAZWOPER Part B	3
	Security Mentor – Office Security	0.25
	FMB Open Forum	2
	Adverse Weather	0.25
	FMB Open Forum	2
	Security Mentor – Social Engineering	0.25
	Preventing Workplace Harassment	0.25
	FMB Open Forum	2
	FMB Open Forum	2
Katherine O'Neal	Security Mentor - Inside threat	0.25
	HAZWOPER Part A	4
	DEQ–Sexual Harassment and Discrimination Prevention Training	2
	FMB Open Forum	2
	Security Mentor - Working Remotely	0.25
	FMB Open Forum	2
	FMB Open Forum	2
	FMB Open Forum	2
	Hazardous Waste Combustion Training	30
	FMB Open Forum	2
Caroline Bari	FMB Open Forum	2
	Research and Development Needs for Management of DoD's PFAS Contaminated Sites	1.5
	EPA Equis Training	1
	HW Section Annual meeting	8
	EPA Organic Air Training	14
	Hazwoper Training Part B	4
	FMB Open Forum	2
	FMB Open Forum	2
	FMB Open Forum	2
	FMB Open Forum	2
Mary Siedlecki	HAZWOPER Part A	4
	DEQ–Sexual Harassment and Discrimination Prevention Training	2
	FMB Open Forum	2
	HW Generator Workshop	8
	FMB Open Forum	2
	FMB Open Forum	2
	FMB Open Forum	2

	FMB Open Forum	2
	NGWA Conference on Fractured Rock	19
	Security Mentor - Public Wifi	0.25
	Shooter Training	3.5
	Hazwoper Part B	3.5
	EPA Equis Training	1
	HW Section Annual meeting	8
	EPA Organic Air Training	14
	Office Security	0.25
	FMB Open Forum	2
	Adverse Weather	0.25
	FMB Open Forum	2
	FMB Open Forum	2
Joe Ghiold	Preventing Workplace Harassment	0.5
	DEQ HR/Safety - Fire Extinguisher Awareness Training 1.1	0.5
	Security Mentor - Inside threat	0.25
	NCDEQ Harassment and Discrimination	2
	PFAS Landfill Seminar	1
	HAZWOPER Part A	4
	FMB Open Forum	2
	Security Monitor - Working Remotely	0.25
	FMB Open Forum	2
	Security Mentor - Cloud Security - Computing in the Cloud!	0.25
	FMB Open Forum	2
	FMB Open Forum	2
	HW Section Annual meeting	8
	EPA Organic Air Training	14
	FMB Open Forum	2
	FMB Open Forum	2
	FMB Open Forum	2
	FMB Open Forum	2
	Security Mentor - Inside threat	0.25
Mike Babuin	PFOA/PFAS Battel Conference	40
	HAZWOPER Part A	4
	NCDEQ Harassment and Discrimination	2
	Advanced Composites for In-Situ Remediation of Groundwater and Surface Waters	1
	FMB Open Forum	2
	FMB Open Forum	2
	FMB Open Forum	2

	FMB Open Forum	2
Carl Utterback	Research and Development Needs for Management of DoD's PFAS Contaminated Sites	1.5
	HW Section Annual meeting	8
	EPA Organic Air Training	14
	FMB Open Forum	2
	FMB Open Forum	2
	FMB Open Forum	2
	Geospatial Analysis for Optimization at Environmental Sites	2.25
	FMB Open Forum	2
	FMB Open Forum	2
	FMB Open Forum	2
	FMB Open Forum	2
Rob McDaniel	Research and Development Needs for Management of DoD's PFAS Contaminated Sites	1.5
	Hazwoper Part B	4
	Security Mentor – Public Wifi	0.25
	Active Shooter Awareness Training - Run, Hide, Fight	0.25
	EPA Equis Training	1
	HW Section Annual meeting	8
	EPA Organic Air Training	14
	Office Security	0.25
	FMB Open Forum	2
	Adverse Weather	0.25
	FMB Open Forum	2
	Security Mentor – Social Engineering Lesson	0.25
	Preventing Workplace Harassment	0.25
	FMB Open Forum	2
	ITRC – Integrated DNAPL Site Characterization	2.25
	Remedy Selection for Contaminated Sediments	2.25
	FMB Open Forum	2
	Soil Sampling and Decision Making Using Incremental Sampling Methodology Part 2	2.25
	Geospatial Analysis for Optimization at Environmental Sites	2.25
	Security Mentor - Inside threat	0.25
	HAZWOPER Part A	4
	DEQ–Sexual Harassment and Discrimination Prevention Training	2
	FMB Open Forum	2

	Earthquakes, Sinkholes, Landslides, Water, Minerals and Energy: 24 Years of Addressing Geohazards and Resource Needs in North Carolina	1
	Security Mentor - Working Remotely	0.25
	FMB Open Forum	2
	FMB Open Forum	2
	Security Mentor - Cloud Security - Computing in the Cloud!	0.25
	FMB Open Forum	2
	FMB Open Forum	2
	Emerging Contaminants in the Ambient Environment	9
Amy Risen	EPA's Chemistry Dashboard	3
	OSHR Safety – Incident Investigation & Reporting Process	0.3
	OSHR Safety – Avoiding Slips Trips & Falls	0.25
	OSHR Safety – Be a Safety Hero	0.25
	Preventing Workplace Harassment v2	0.3
	Security Monitor – Working Remotely	0.25
Julie Woosley	EPA AA, BB, CC Training	8
	Security Mentor - 8 separate online DEQ trainings	4
	DEQ: Preventing Workplace Harrassment	1
	DEQ: Active Shooter Training	0.5
	DEQ Leadership Forum Annual Conference	8
	HAZWOPER A & B	8
	Environmental Show of the South	20
	ASTSWMO Annual Meeting	20
	EPA PFAS Community Forum	8
	FMB Open Forums	10
Jenny Patterson	NCVIP Performance Planning	1
	Subpart BB & CC Training	16
	Security Mentor- Public Wifi, Office Security, Insider Threat, Working Remotely, Computing in the Cloud	1
	Active Shooter	0.25
	Generator Improvement Rule training (EPA)	1.5
	Rulers Roundtable/Permanent Rulemaking	1
	Bloodborne Pathogens	1
	E-Manifest Webinars	1
	OSHR Safety Adverse Weather: Plan, Educate, Communicate	0.25
	EPA Authorization Conference	28
	EPA ECHO - Data Verification	1

	EPA E-manifest Updates	6
	EPA Authorization Webinar – Pitfalls of State Authorization	1
	First Aid / CPR	4
	EPA Region 6 Inspector/Enforcement Training Webinar	6
	Hazwoper Part B	4
	Hazwoper Part A	4
Kelly Galantis	Security Mentor (x 7)	4
	Preventing Workplace Harassment	0.25
	Adverse Weather Policy	0.25
	FE Training	0.5
	Learning Center New User Training	0.25
	Active Shooter	0.5
	NCVIP Philosophy	0.5
	Sexual Harassment Prevention	2
Ann Preston	Security Mentor (x 6)	1.5
	Sexual Harassment & Discrimination	2
	FE Training	0.5
	Preventing Workplace Harassment	0.5
	Adverse Weather Policy	0.5
	Active Shooter	0.5
	Brownbag Series: Navigating the Legal Pitfalls of RCRA State Authorization	1
	NCVIP Perf Phase	1.5
	Li Battery Training	2
	Stress Mgt	1
	Haz A	4
	Incident Response	1
	Best Conf	8
	BBP	0.5
	AA/BB/CC	16
	RCRAInfo on Translation	1
Brad Bailey	AA/BB/BB	16
	NEW HW GIR training	4
	Haz A	4
	First Aid / CPR / AED	4
	Haz B	4
	New Regs Orientation	4
	Security Mentor (x 8)	2
	Preventing Workplace Harassment	0.5

	Sexual Harassment	2
	Adverse Weather	0.5
Anthony Foster	RTR	9
	Avoiding Sprains/Strains	0.25
	Adverse Weather Policy	0.25
	Sexual Harassment	3
	FE Training	1
	Workplace Harassment	1
	AA/BB/CC	16
	Subpart K, RCRAAID, Rules	2
	Contingency Plan Training	3
	Haz A	4
	Security Mentor (x 12)	3
Mark Wilkins	Security Mentor (x 7)	2
	Adverse Weather	0.5
	Preventing Workplace Harassment	0.5
	One Drive Training	1
	Managing LNAPL Sites	2
	Haz A & B	8
	Characterization and Remediation of Fractured Rock	2
	Geospatial Analysis for Optimization at Environmental Sites	2
	Integrated DNAPL Site Characterization	1
	Overview of the Technology and Permitting Process for Underground Injection Control (UIC) Wells in NC	1.5
	Earthquakes, sinkholes, landslides, water, minerals and energy: 24 years of addressing geohazards and resource needs in North Carolina	1.5
Brent Burch	Removal Process for RPM's – 11 hrs.	11
	Hazwoper Part B – 4 hrs	4
	Bloodborne Pathogens – 0.5 hr	0.5
	EPA Organic Air Training – 14.0 hrs	14
	Hazwoper Part A – 4 hrs.	4
	Fire Extinguisher Training – 0.5 hrs	0.5
	Preventing Workplace Harassment – 0.25 hrs	0.25
	DEQ Sexual Harassment and Discrimination Prevention – 2 hrs.	2
	EPA Region IV State Director's in Oct and March	30
Melodi Deaver	Security Mentor – Cloud Security Computing in the Cloud	0.25
	Security Mentor – Working Remotely	0.17

	DEQ Sexual Harassment and Discrimination Prevention	2
	Security Mentor – Inside Threat	0.25
	DEQ HR/Safety – Fire Extinguisher Awareness Training	0.25
	DEQ HR/Safety – Fire Extinguisher Awareness Training 1.1	0.25
	Preventing Workplace Harassment v2	0.25
	Security Mentor – Social Engineering Lesson	0.25
	Adverse Weather Policy: Plan, Educate, Communicate	0.25
	Security Mentor – Office Safety	0.25
	Security Mentor – Public Wifi	0.25
Jenny Lopp	Security Mentor-Internet of Things: Here, There and Everywhere	0.15
	Security Mentor-Cloud Security-Computing in the Cloud!	0.15
	DEQ-Sexual Harassment and Discrimination Prevention	2
	DEQ HR/Safety-Fire Extinguisher Awareness Training	0.13
	Security Mentor-Working Remotely	0.12
	Diversity Awareness: Program Overview and Instruction	0.05
	Preventing Workplace Harassment	0.19
	Preventing Workplace Harassment v2	0.19
	Security Mentor-Social Engineering Lesson	0.15
	Office 365 What's Going to Change with My Email	0.05
	Adverse Weather Policy: Plan, Educate, Communicate	0.1
	Controlling Bullying in the Workplace	0.05
	DEQ Safety and Security: Active Shooter Training	4.06
	OSHR Safety -Adverse Weather: Plan, Educate, Communicate	0.1
	Security Mentor-Public Wifi	0.1
	Security Mentor-Office Security	0.1
	Office Safety and Ergonomics	1.15
	Grievance Overview	0.15
	Security Mentor-Insider Threat	0.12
Total hours of training		**2,044**

Note: Training hours increased this year, due largely to the new DEQ Learning Management System, which provides additional required non-technical training (such as cyber security) as well as training documentation.